Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

1.96
R31Fso

WATER SUPPLY OUTLOOK FOR OREGON

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

OREGON STATE UNIVERSITY and STATE ENGINEER of OREGON

AS OF
MAY 1, 1974

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

Cover Photo: Snow Surveyors near Ship Creek, Alaska snow course.

SCS PHOTO A-272-11

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N. W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and tor British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

USDA-SCS-PORTLAND, OREG 1973

WATER SUPPLY OUTLOOK FOR OREGON

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued

MAY 8, 1974

Issued by

KENNETH E. GRANT
ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.

Released by

J. W. MITCHELL
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
PORTLAND, OREGON

In Cooperation with

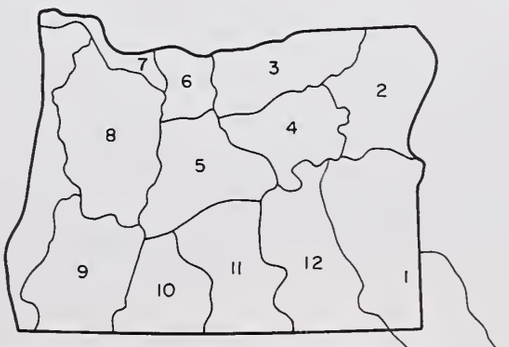
G. BURTON WOOD
DIRECTOR
OREGON AGRICULTURAL
EXPERIMENT STATION

CHRIS L. WHEELER
STATE ENGINEER
STATE OF OREGON

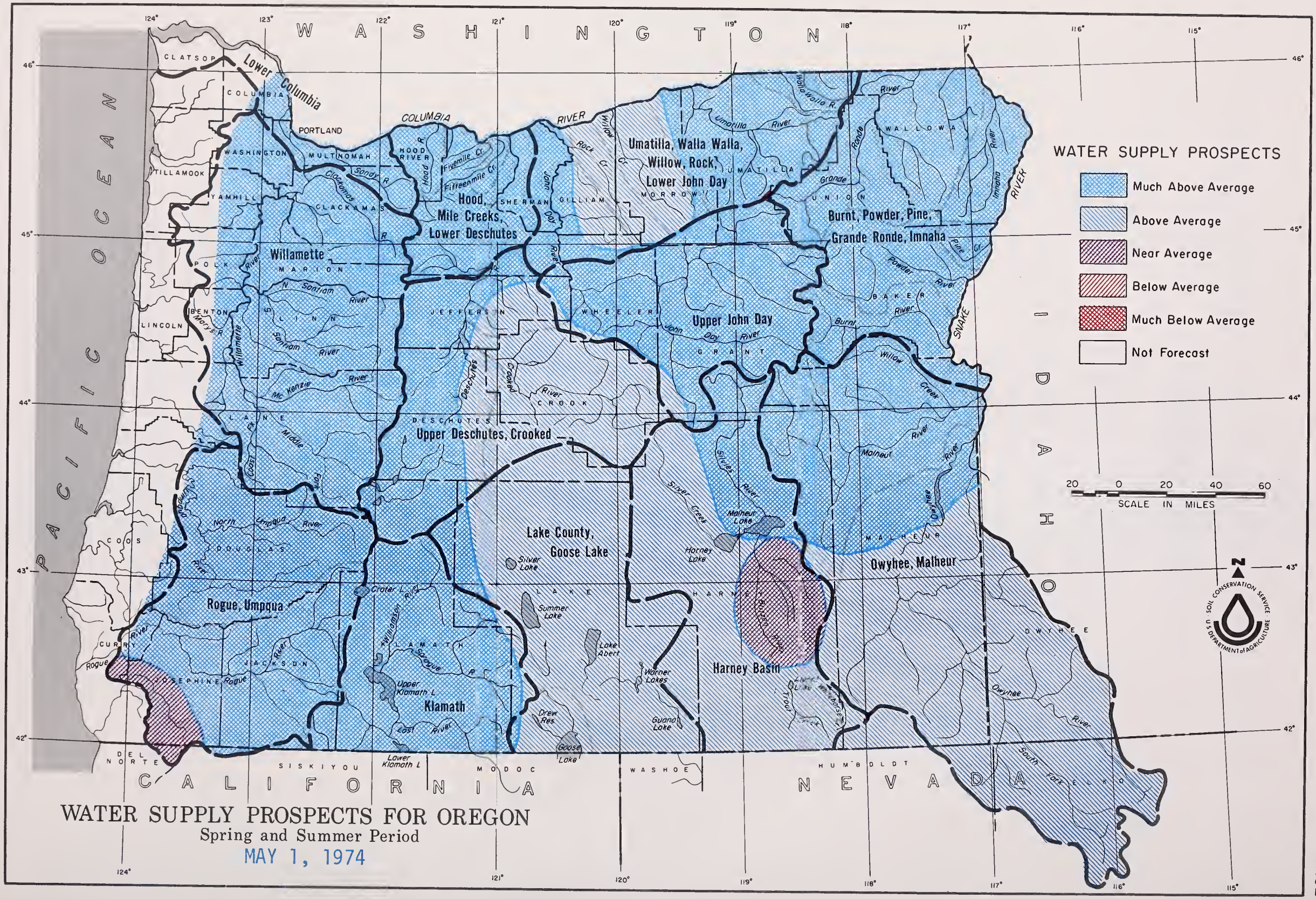
Report prepared by

TOMMY A. GEORGE, Snow Survey Supervisor
and
JAMES W. HAGLUND, Assistant Snow Survey Supervisor
SOIL CONSERVATION SERVICE
1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 97205

TABLE OF CONTENTS



WATERSHED AREA LOCATIONS



WATER SUPPLY PROSPECTS FOR OREGON

Spring and Summer Period

MAY 1, 1974

U. S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

WATER SUPPLY OUTLOOK for OREGON

MAY 1, 1974

Oregon's water supply outlook remains excellent. Cool temperatures at the higher elevations have delayed melt of the snowpack in much of the state. The snowpack generally ranges from 180 to 300% of normal. Most reservoirs are full and spilling. Summer streamflow volumes should be much above average in most areas.

SNOW COVER

Thirty-two snow courses recorded alltime maximum water content on May 1. Most of the snow is at the median and high elevations. Records were measured along the Cascade Crest, in the Blue Mountains above Pendleton, in the Elkhorns near Baker, and in the Wallowa Mountains. The snowpack ranges from near normal on the Owyhee Watershed up to 315% of average on the Umatilla Drainage.

PRECIPITATION

Precipitation during April ranged from a low of 60% of normal in Lake County up to 200% in the Umatilla River Basin. Most stations were near normal or above. All areas of the state have recorded above normal precipitation during the November through April period.

RESERVOIR STORAGE

Twenty-seven major irrigation reservoirs were storing 3,021,000 acre feet of water on May 1. This is 118% of average and 94% of capacity. Most reservoirs are spilling and will pass through much of the anticipated snowmelt runoff.

continued on next page -

continued--

STREAMFLOW

Streamflow was generally 150-175% of normal during April. This was due to melt of the lower elevation snowpack and rainfall received during the month. Forecasted streamflow volumes during the remainder of the snowmelt runoff period will generally be average to much above average.

This report contains data furnished by the Oregon State Engineer, US Geological Survey, NOAA National Weather Service, and other cooperators.

WATER SUPPLY OUTLOOK
OWYHEE, MALHEUR WATERSHEDS
OREGON
as of

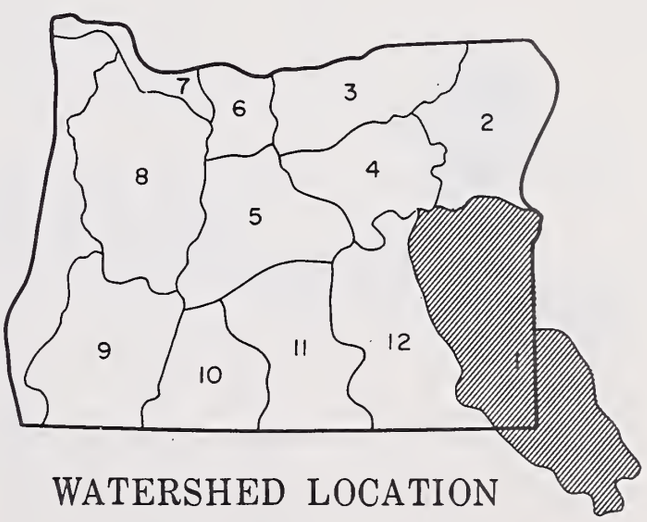
MAY 1, 1974

GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK IN MALHEUR COUNTY REMAINS EXCELLENT. MOST OF THE SNOW IN THE OWYHEE DRAINAGE HAS MELTED BUT THIS IS A NORMAL CONDITION FOR MAY 1. SNOW COVER ON THE MALHEUR IS 200% OF AVERAGE. PRECIPITATION DURING THE PAST MONTH WAS NEAR AVERAGE TO SLIGHTLY BELOW NORMAL. RESERVOIRS ARE STORING ABOVE NORMAL AMOUNTS OF WATER FOR MAY 1. ALL BUT WARMSPRINGS ARE FULL AND SPILLING. INFLOW TO OWYHEE RESERVOIR DURING APRIL WAS 155% OF AVERAGE.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Boulder Creek	Excellent	Excellent
Bully Creek	Excellent	Average
Cow Creek	Excellent	Average
Jordan Creek	Excellent	Average
Jordan Valley Irrig. Dist.	Excellent	Average
McDermitt Creek	Average	Average
Oregon Canyon Creek	Average	Average
Owyhee Project	Excellent	Excellent
Succor Creek	Average	Average
Tenmile Creek	Average	Average
Vale-Oregon Irrig. Dist.	Excellent	Excellent
Warmsprings Irrig. Dist.	Excellent	Excellent
Willow Creek (Reservoired)	Excellent	Excellent



WATERSHED LOCATION

U.S.D.A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

Report prepared by
T.A. GEORGE and J.W. HAGLUND
SOIL CONSERVATION SERVICE
1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 97205

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [i]
Bully Creek at Warmsprings	23	170	March-May		13.5 [m]
Malheur near Drewsey	46	144	May-July		32
	50	152	May-Sept.		33
Malheur, North Fork at Beulah	43	123	May-July		35
	48	120	May-Sept.		40
Owyhee Reservoir net Inflow [m]	195	124	May-July	118	157
	220	122	May-Sept.	145	180

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Owyhee near Rome	1000	May 24	May 24
	250	June 26	June 20

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average
Antelope	70.0	51.6	25.1	41.5 [m]
Beulah Reservoir	60.0	58.0	37.6	51.2
Bully Creek	30.0	29.7	19.8	24.1 [m]
Owyhee	715.0	712.7	714.0	563.8
Warmsprings	191.0	178.6	128.5	140.1

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	THIS YEAR'S MOISTURE as PERCENT OF: Average [i]
Jordan Creek (Discontinued)	-	-	-
Malheur River	1	90	92
Owyhee River	1	95	92

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average [i]
Jordan Creek	2	320	160
Malheur River	3	705	200
Owyhee River	4	170	105

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (l) Ground measurement. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK

BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS

OREGON

as of

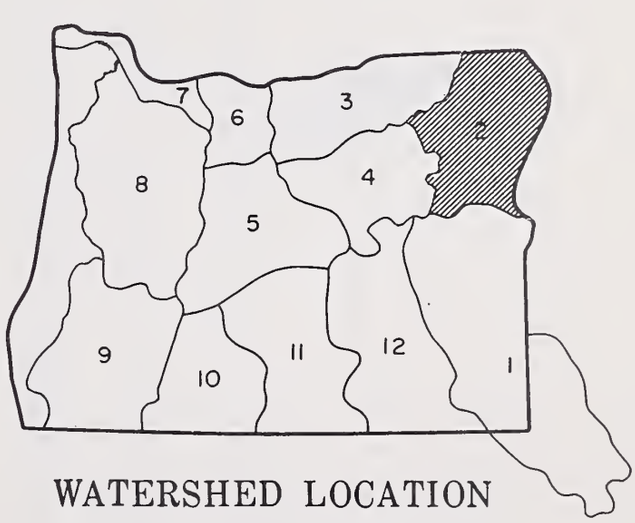
MAY 1, 1974

GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK FOR NORTHEASTERN OREGON IS STILL EXCELLENT. RECORD MAY 1 AMOUNTS OF SNOW WERE MEASURED IN THE ELKHORNS AND THE WALLOWA MOUNTAINS. HEAVIEST AMOUNTS WERE MEASURED AT THE HIGHER ELEVATIONS. THE SNOW COVER RANGES FROM 150 TO 250% OF AVERAGE. PRECIPITATION WAS NEAR NORMAL DURING APRIL AND HAS BEEN 140% OF AVERAGE FOR THE NOVEMBER THROUGH APRIL PERIOD. STREAMFLOW ON THE GRANDE RONDE THIS PAST MONTH WAS 190% OF AVERAGE. PROJECTED SPRING AND SUMMER STREAMFLOW VOLUMES WILL BE MUCH ABOVE AVERAGE. MOST RESERVOIRS ARE FULL AND SPILLING.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Alder Slope	Excellent	Excellent
Baker Valley	Excellent	Excellent
Big Creek	Excellent	Excellent
Clover Cr. (nr. N. Powder)	Excellent	Excellent
Cove	Excellent	Excellent
Durkee	Excellent	Excellent
Eagle Valley	Excellent	Excellent
Elgin	Excellent	Excellent
Enterprise-Joseph	Excellent	Excellent
Hereford-Bridgeport	Excellent	Excellent
Imnaha River	Excellent	Excellent
LaGrande-Island City	Excellent	Excellent
Lostine-Wallowa	Excellent	Excellent
No. Powder River-Wolf Creek	Excellent	Excellent
Pine Valley	Excellent	Excellent
Powder River-Elk Creek	Excellent	Excellent
Summerville	Excellent	Excellent
Sumpter Valley	Excellent	Excellent
Union-Hot Lake	Excellent	Excellent
Unity	Excellent	Excellent



WATERSHED LOCATION

U.S.D.A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

Report prepared by
T.A. GEORGE and J.W. HAGLUND
SOIL CONSERVATION SERVICE
1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 97205

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	THIS YEAR FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average *i*
Bear near Wallowa	80	138	May-Sept.		58
Burnt near Hereford[d]	24	174	May-July		13.8
	25	169	May-Sept.		14.8
Catherine near Union	70	132	May-Sept.		53
Eagle Creek abv. Skull Creek	228	150	May-July		152
	247	149	May-Sept.		166
Grande Ronde at La Grande	158	172	May-July	34	92
	167	174	May-Sept.	35	96
Hurricane near Joseph	57	130	May-Sept.		44
Imnaha at Imnaha	327	129	May-Sept.		253
Lostine near Lostine	155	132	May-Sept.		117
Powder near Sumpter	60	150	May-July		40
	62	151	May-Sept.		41
Wallowa, East Fork near Joseph[d]	11.5	135	May-July		8.5
	14.3	134	May-Sept.		10.7

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average *i*
Phillips Lake	73.5	72.4	51.9	- -
Thief Valley	17.4	17.4	17.4	17.5
Unity	25.2	24.5	23.4	25.1
Wallowa Lake	37.5	21.4	16.2	26.2

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average *i*
Burnt River	4	625	185
Grande Ronde River above La Grande	4	1300	245
Powder River	5	335	180
Wallowa, Imnaha, Catherine Creek	6	235	150

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	THIS YEAR'S MOISTURE as PERCENT OF: Average *i*
Burnt, Powder	2	100	109
Grande Ronde, Catherine Creek, Imnaha River	2	105	102

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK

UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS

OREGON

as of

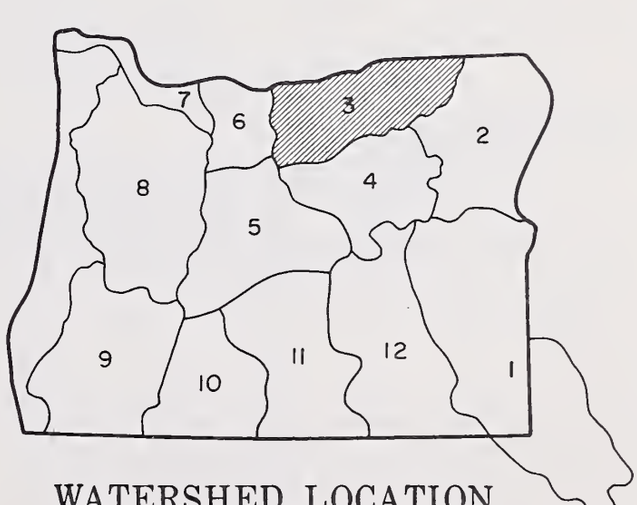
MAY 1, 1974

GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK REMAINS EXCELLENT. A RECORD MAY 1 SNOWPACK WAS MEASURED ON THE WALLA WALLA AND UMATILLA WATERSHEDS. TOLLGATE SNOW COURSE RECORDED AN ALLTIME RECORD OF 52.9 INCHES OF SNOW WATER EQUIVALENT. THE SNOW COVER RANGES FROM 2 TO 3 TIMES NORMAL. PRECIPITATION WAS DOUBLE THE NORMAL FOR APRIL. THIS WAS THE WETTEST PART OF THE STATE THIS PAST MONTH. RESERVOIR STORAGE IS ABOVE NORMAL AND MOST ARE FULL AND SPILLING.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Walla Walla River, No. Fork	Excellent	Excellent
Walla Walla River, So. Fork	Excellent	Excellent
Walla Walla River, Main	Excellent	Excellent
Walla Walla River, Little	Excellent	Excellent
Couse Creek	Excellent	Excellent
Dry Creek	Excellent	Excellent
Pine Creek	Excellent	Excellent
Umatilla River, Main	Excellent	Excellent
Wildhorse Creek	Excellent	Excellent
Umatilla R. (Cold Springs Reservoir)	Excellent	Excellent
Umatilla R. (McKay Res.)	Excellent	Excellent
McKay Creek	Excellent	Excellent
Birch Creek	Excellent	Excellent
Butter Creek	Excellent	Excellent
Willow Creek	Excellent	Excellent
Rhea Creek	Excellent	Excellent
Rock Creek (John Day Tributary)	Excellent	Excellent



WATERSHED LOCATION

U.S.D.A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

Report prepared by
T.A. GEORGE and J.W. HAGLUND
SOIL CONSERVATION SERVICE
1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 97205

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average i
Birch Creek at Rieth	8.0	113	May-July		7.1
	5.0	147	May-July		3.4
Butter Creek near Pine City	10.0	114	May-Sept.		8.8
McKay near Pilot Rock	66	169	May-July		39
	73	162	May-Sept.		45
Umatilla near Gibbon	119	175	May-July		68
	125	171	May-Sept.		73
Umatilla at Pendleton	54	142	May-July		38
	70	137	May-Sept.		51
Walla Walla, South Fork near Milton					

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Umatilla at Pendleton	550	June 22	May 22

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average i
Cold Springs	50.0	49.9	45.6	49.5
McKay	73.8	68.5	32.5	57.6

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	THIS YEAR'S MOISTURE as PERCENT OF: Average i
Umatilla, Walla Walla, McKay Creek	3	96	95

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average i
McKay Creek	3	765	215
Umatilla River	3	965	315
Walla Walla River	2	1115	320

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

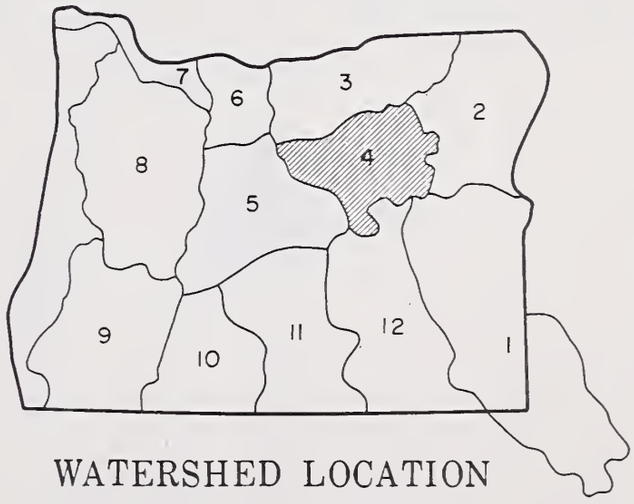
WATER SUPPLY OUTLOOK
UPPER JOHN DAY WATERSHEDS
OREGON
as of
MAY 1, 1974

GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK IN THE JOHN DAY BASIN REMAINS EXCELLENT. THE SNOW COVER RANGES FROM 170% OF NORMAL ON THE NORTH FORK UP TO TWICE NORMAL ON THE JOHN DAY ABOVE DAYVILLE. PRECIPITATION THIS PAST MONTH WAS 110% OF AVERAGE. PROJECTED SPRING AND SUMMER STREAMFLOW VOLUMES SHOULD BE MUCH ABOVE AVERAGE.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Beech Creek	Excellent	Average
Beech Creek-Fox-Long Cr.	Excellent	Average
Bridge-Mountain Creeks	Excellent	Average
Camas Creek	Average	Average
Cherry Creek	Average	Average
Indian-Pine Creeks	Excellent	Average
John Day River, Main Fork	Excellent	Average
John Day River, Mid. Fork	Excellent	Average
John Day River, N. Fork	Excellent	Average
John Day River, S. Fork	Excellent	Average
Monument-Kimberly	Excellent	Average
Strawberry Creek	Excellent	Average



WATERSHED LOCATION

U.S.D.A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

Report prepared by
T.A. GEORGE and J.W. HAGLUND
SOIL CONSERVATION SERVICE
1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 97205

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average i
Camas Creek near Ukiah	19.5	120	May-July		16.2
	20	120	May-Sept.		16.7
John Day, Middle Fork at Ritter	93	139	May-July		67
	98	140	May-Sept.		70
John Day, North Fork at Monument	545	160	May-July		340
	560	158	May-Sept.		354
Strawberry near Prairie City	9.3	143	May-July		6.5
	10.0	139	May-Sept.		7.2

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	THIS YEAR'S MOISTURE as PERCENT OF: Average i
John Day above Dayville	4	110	102
John Day, North Fork	2	114	107

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average i
John Day, North Fork	7	570	170
John Day abv. Dayville	4	805	210

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK

UPPER DESCHUTES, CROOKED WATERSHEDS

OREGON

as of

MAY 1, 1974

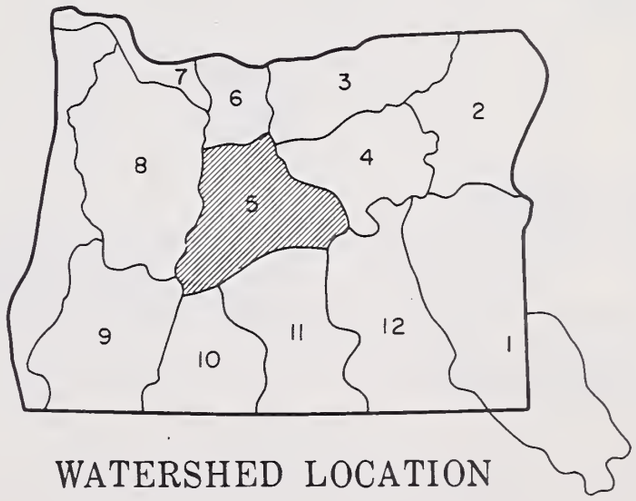
GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK IN THE DESCHUTES RIVER BASIN REMAINS EXCELLENT. A RECORD MAY 1 SNOWPACK WAS MEASURED ALONG THE CASCADE CREST. THE SNOW COVER GENERALLY RANGES FROM 180 TO 190% OF AVERAGE EXCEPT ON THE CROOKED RIVER WHERE MOST OF THE SNOW HAS MELTED. PRECIPITATION THIS PAST MONTH WAS 110% OF NORMAL. MOST OF THE MAJOR RESERVOIRS ARE FULL AND SPILLING AND PROJECTED SUMMER STREAMFLOW VOLUMES ARE ABOVE AVERAGE.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Arnold Irrigation Dist.	Excellent	Average
Bear Creek	Average	Average
Beaver Creek	Excellent	Average
Camp Creek	Average	Average
Central Ore. Irrig. Dist.	Excellent	Average
Crooked River	Excellent	Average
Deschutes River	Excellent	Excellent
Hay-Trout Creeks	Average	Average
Lone Pine Irrig. Dist.	Excellent	Excellent
Mill Creek	Average	Average
North Unit Irrig. Dist.	Average	Average
Ochoco Creek	Excellent	Excellent
Sisters Irrigation Dist.	Excellent	Excellent
Snow Creek Irrig. Dist.	Excellent	Excellent
Squaw Creek Irrig. Dist.	Excellent	Excellent
Swalley Ditch	Excellent	Excellent
Tumalo Project	Excellent	Average
Walker Basin Irrig. Dist.	Excellent	Average



WATERSHED LOCATION

U.S.D.A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

Report prepared by
T.A. GEORGE and J.W. HAGLUND
SOIL CONSERVATION SERVICE
1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 97205

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average i
Beaver Creek near Paulina	5.0	114	May-July		4.4
	5.5	120	May-Sept.		4.6
Crane Prairie Reservoir total Inflow	116	181	May-July		64
	179	170	May-Sept.		105
Crescent at Crescent Lake [d]	28	179	May-July		15.6
	32	163	May-Sept.		19.6
Crooked near Post	40	125	May-July		32
Deschutes at Benham Falls [d]	351	125	May-July		281
	564	120	May-Sept.		471
Deschutes below Snow Creek	103	184	May-Sept		56
Deschutes, Little near La Pine [d]	106	200	May-July	17.3	53
	123	195	May-Sept.	25	63
Ochoco Reservoir net Inflow	10.0	109	May-Sept.		9.2
Odell near Crescent	35	152	May-Sept.		23
Squaw near Sisters	61	133	May-Sept.	30	46
Tumalo near Bend [d]	55	141	May-Sept.	27	39

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Crane Prairie net Inflow	300	*	July 15
Crooked R. near Post	100	June 12	June 1
Deschutes at Bend	1500	Sept. 29	July 1
Little Deschutes near La Pine	400	July 1	June 7
	200	Aug. 6	July 8

*Will not recede to low flow.

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average i
Crane Prairie	46.2	55.3	52.1	42.4
Crescent Lake	84.1	86.9	89.8	52.3
Ochoco	47.1	47.5	28.3	36.8
Prineville	155.8	153.0	150.9	146.8
Wickiup	202.0	200.0	183.9	188.5

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	THIS YEAR'S MOISTURE as PERCENT OF: Average i
Crooked R., Upper Deschutes River	1	114	101

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average i
Crooked, Ochoco	-	-	-
Deschutes abv. Wickiup	1	295	180
Little Deschutes	4	385	190
Tumalo & Squaw Crs.	3	350	185

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK

HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS

OREGON

as of

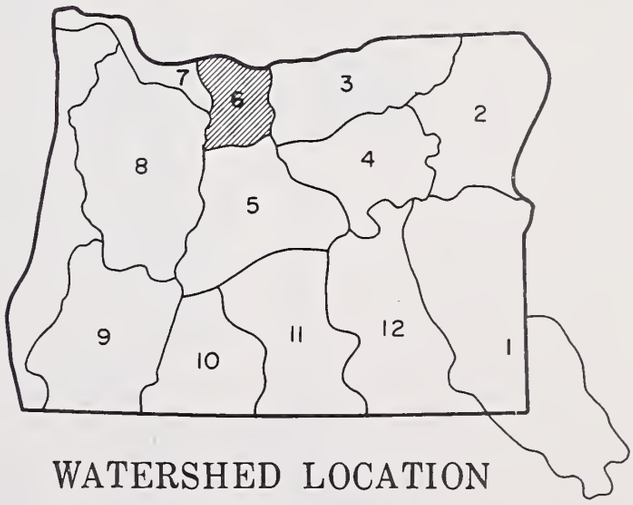
MAY 1, 1974

GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK REMAINS EXCELLENT IN HOOD RIVER AND WASCO COUNTIES. A RECORD MAY 1 SNOWPACK WAS MEASURED AT THE SNOW COURSES AROUND MT. HOOD. THE SNOW COVER IS DOUBLE THE MAY 1 AVERAGE. PRECIPITATION DURING APRIL WAS NEAR NORMAL. SPRING AND SUMMER STREAMFLOW VOLUMES WILL BE MUCH ABOVE AVERAGE.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Aldridge Ditch (Tony Creek)	Excellent	Excellent
Badger Creek	Excellent	Excellent
Dee Irrigation Dist.	Excellent	Excellent
East Fork Irrig. Dist	Excellent	Excellent
Farmers Irrigation Dist.	Excellent	Excellent
Hood River Irrig. Dist	Excellent	Excellent
Juniper Flat	Excellent	Excellent
Middle Fork Irrig. Dist.	Excellent	Excellent
Mile Creeks	Excellent	Excellent
Mill Creek	Excellent	Excellent
Mount Hood Irrig. Dist.	Excellent	Excellent
Rock-Gate-Threemile Crs.	Excellent	Excellent
Tygh Creek	Excellent	Excellent
White River	Excellent	Excellent



WATERSHED LOCATION

U.S.D.A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

Report prepared by
T.A. GEORGE and J.W. HAGLUND
SOIL CONSERVATION SERVICE
1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 97205

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [i]
Hood River near Tucker Bridge	293	156	May-July		188
	359	154	May-Sept.		234
Hood, West Fork near Dee	132	155	May-July	51	85
	164	153	May-Sept.	70	107
White below Tygh Valley	180	228	May-July	29	79
	195	207	May-Sept	41	94

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Clear Branch Inflow	64*	July 15-31	39**

*Average cfs forecast to flow for this two-week period.

**Average cfs for period of record.

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average [i]
Clear Lake (Wasco)	11.9	5.9	6.7	4.6

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average [i]
Hood River	3	500	210
Mile Creeks	-	-	-
White River	3	500	210

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72 adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

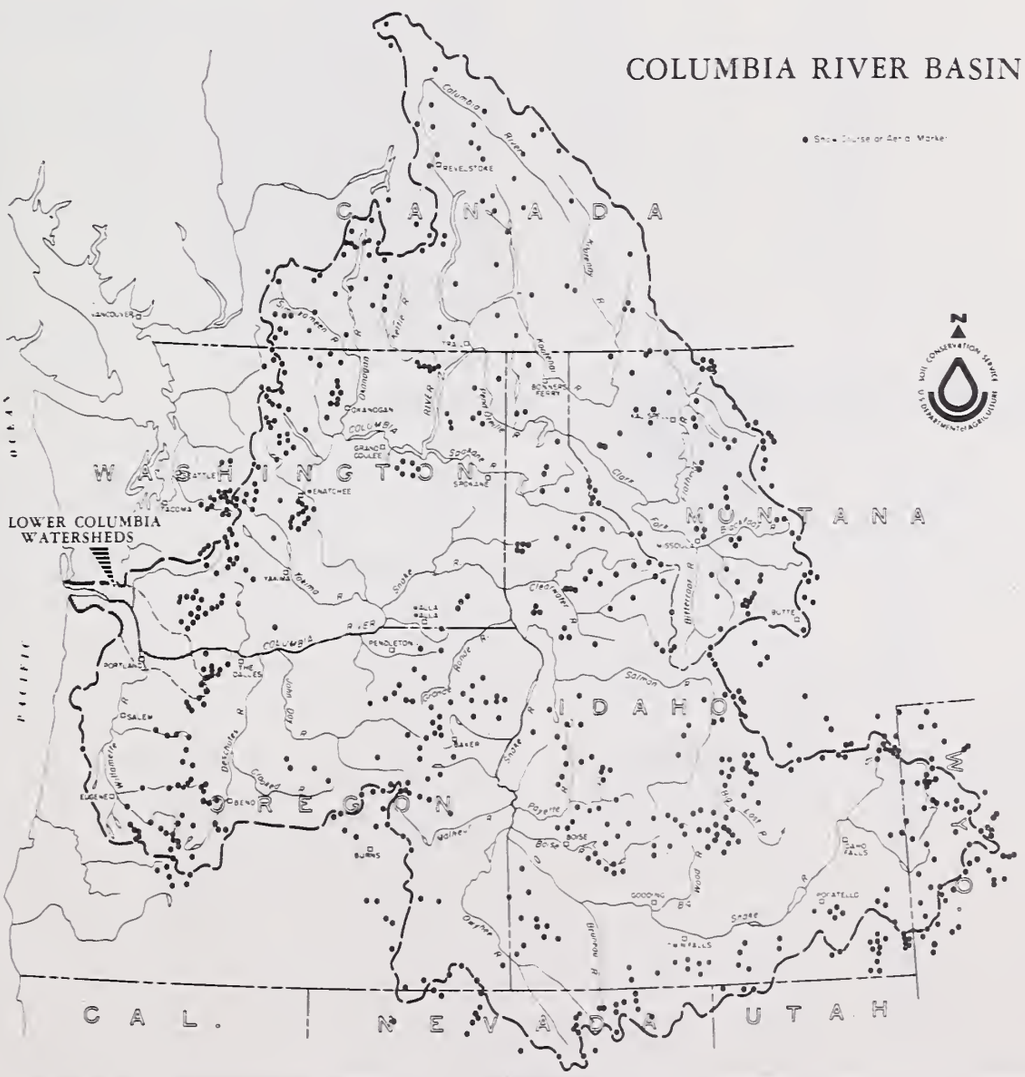
WATER SUPPLY OUTLOOK
LOWER COLUMBIA WATERSHEDS
OREGON

as of

MAY 1, 1974

GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK IN THE COLUMBIA BASIN GENERALLY REMAINS EXCELLENT. COOL UPPER AIR TEMPERATURES DELAYED SNOWMELT IN MUCH OF THE BASIN. THE SNOWPACK IS WITHIN 15% OF AVERAGE IN SOUTHERN IDAHO, ON THE CLARK'S FORK IN MONTANA, AND ON THE UPPER COLUMBIA IN BRITISH COLUMBIA. ALL OTHER AREAS VARY FROM 120% OF AVERAGE ON UP TO AS MUCH AS 300%, AS ON THE UMATILLA IN OREGON. THE PACK IS GENERALLY NOT AS HEAVY AS IT WAS IN 1972. PRECIPITATION WAS GENERALLY BELOW NORMAL IN IDAHO AND ABOVE NORMAL ELSEWHERE IN THE BASIN DURING APRIL. STREAMFLOW VOLUMES ON THE MAJOR STREAMS WILL RANGE FROM 105% OF AVERAGE UP TO 170% DURING THE REMAINDER OF THE RUNOFF PERIOD. RUNOFF ON THE COLUMBIA AT THE DALLES WAS 153% OF NORMAL DURING APRIL. THIS WAS THE SIXTH MONTH IN A ROW THAT IT HAS EXCEEDED THE NORMAL.



U.S.D.A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

Report prepared by
T.A. GEORGE and J.W. HAGLUND
SOIL CONSERVATION SERVICE
1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 97205

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average [i]
Sandy River	2	455	200

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [i]
Columbia at The Dalles [d]	98,000	128	May-July	47,028	76,822
	116,000	127	May-Sept.	57,890	91,430
Sandy River near Marmot	330	145	May-July		227
	396	140	May-Sept.		282

HISTORICAL DATA (Columbia River at The Dalles)

YEAR	STREAMFLOW [d] (1,000 A F) APR.— SEPT.	APR — JUNE	MAY — JUNE	REGULATED PEAK (1,000 c.f.s)	DATE
1958	97,700	72,000	58,600	593	May 31
1959	112,500	71,900	58,900	555	June 23
1960	97,000	64,000	48,000	442	June 6
1961	101,400	74,400	64,000	699	June 8
1962	94,600	64,100	49,200	460	June 5
1963	87,000	56,300	46,200	437	June 18
1964	109,020	70,739	61,313	662	June 18
1965	114,137	80,024	62,477	520	June 9
1966	87,268	58,120	45,922	396	June 12
1967	107,771	72,408	65,112	622	June 10
1968	89,000	55,500	47,900	404	June 13
1969	112,300	85,700	63,800	515	May 15
1970	88,100	62,800	55,200	425	May 28
1971	122,900	88,400	73,700	557	May 13
1972	134,700	96,400	81,400	619	June 20
1958-72 Avg.	104,300	72,900	59,900	529	

LOWER COLUMBIA RIVER FLOOD STAGES (with 9.5' tide at Astoria)

VANCOUVER GAGE (Weather Bu.)	FLOW AT THE DALLES (1,000 c.f.s)	DRAINAGE DISTRICT PUMPHOUSE SANDY	SAUVIE ISL.	SCAPPOOSE	DEER ISL.	RAINIER	BEAVER	WOODSON
		RIVER MILES 118.9	96.0	91.0	77.0	62.0	52.0	47.0
35 (1894)	1210	41.2	34.2	33.3	28.5	21.9	17.5	15.5
34	1160	40.5	33.5	32.5	27.7	21.2	17.0	15.0
33	1100	39.6	32.4	31.4	26.7	20.2	16.1	14.3
32 (1972)	1050	38.9	31.5	30.5	25.7	19.5	15.4	13.7
31 (1948)	1000	38.0	30.7	29.5	25.1	18.8	14.7	13.0
30	943	36.6	29.5	28.5	24.3	18.1	14.0	12.4
29	897	35.5	28.5	27.7	23.7	17.5	13.4	11.8
28	853	34.3	27.5	26.7	22.8	17.0	13.0	11.4
27 (1956)	811	33.0	26.5	25.6	21.8	16.2	12.5	11.0
26 (1950)	771	32.1	25.5	24.6	20.9	15.5	12.2	10.7
25	733	30.7	24.2	23.2	19.7	14.6	11.7	10.3
24	697	29.7	23.0	22.2	19.0	14.1	11.4	10.2
23	662	29.0	22.3	21.4	18.4	13.6	11.2	10.0
22	628	28.1	21.4	20.3	17.2	13.0	10.9	9.7
21	595	27.2	20.7	19.5	16.4	12.6	10.6	9.6
20 (1954)	564	26.2	19.8	18.6	15.5	12.1	10.2	9.4
19	534	25.5	19.2	18.0	15.0	11.8	10.0	9.3
18	501	24.4	18.3	17.2	14.3	11.4	9.8	9.1
17	479	23.4	17.4	16.4	13.7	11.0	9.6	8.9
16	452	22.4	16.5	15.5	13.0	10.5	9.3	8.7

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records.

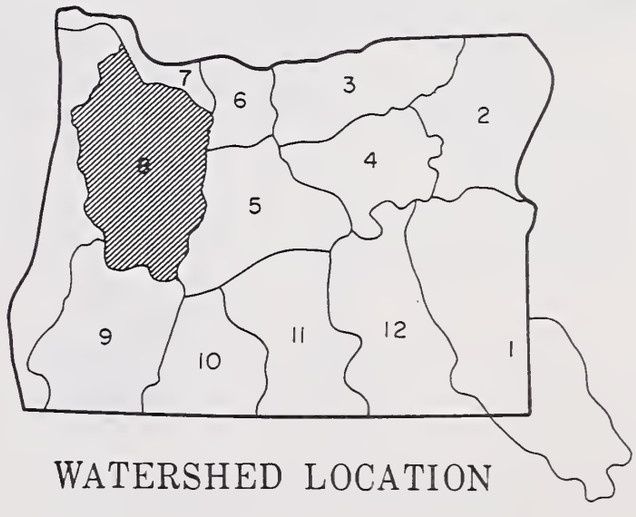
WATER SUPPLY OUTLOOK
WILLAMETTE WATERSHEDS
OREGON
as of
MAY 1, 1974

GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK REMAINS EXCELLENT IN THE WILLAMETTE VALLEY. A RECORD MAY 1 SNOWPACK WAS MEASURED ALONG THE CASCADE MOUNTAIN CREST. THE SNOW COVER RANGES FROM 180% ON THE MIDDLE FORK OF THE WILLAMETTE UP TO 280% ON THE CLACKAMAS DRAINAGE. PRECIPITATION WAS NEAR AVERAGE DURING APRIL. FLOOD CONTROL RESERVOIRS ARE AT NEAR NORMAL LEVELS FOR THIS TIME OF YEAR. SUMMER STREAMFLOW VOLUMES WILL BE MUCH ABOVE AVERAGE.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Calapooya	Excellent	Excellent
Clackamas	Excellent	Excellent
McKenzie	Excellent	Excellent
Molalla	Excellent	Excellent
Santiam, North	Excellent	Excellent
Santiam, South	Excellent	Excellent
Willamette, Coast Fork	Excellent	Excellent
Willamette, Middle Fork	Excellent	Excellent



WATERSHED LOCATION

U.S.D.A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

Report prepared by
T.A. GEORGE and J.W. HAGLUND
SOIL CONSERVATION SERVICE
1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 97205

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [i]
Clackamas at Estacada	617	138	May-July	237	447
	750	133	May-Sept.	343	562
Clackamas above Three Lynx	513	150	May-July	188	343
	618	140	May-Sept.	278	440
McKenzie at McKenzie Bridge	447	136	May-July		329
	627	132	May-Sept.		474
McKenzie near Vida	1019	142	May-July		720
	1300	137	May-Sept.		947
McKenzie, So. Fork near Rainbow[d]	228	163	May-July		140
	271	160	May-Sept.		169
Oak Grove Fork above Power Intake	121	137	May-July	57	89
	167	131	May-Sept.	91	128
Row near Dorena	68	128	May-July		53
	75	129	May-Sept.		58
Santiam, North at Mehama[d]	707	143	May-July		493
	801	133	May-Sept.		600
Santiam, South at Waterloo[d]	452	140	May-July		323
	511	134	May-Sept.		382
Willamette, Mid. Fk. blw. N. Fk. nr. Oakridge	638	138	May-July		462
	745	133	May-Sept.		562
Willamette, No. Fk. of Mid. Fk. near Oakridge	160	133	May-July		121
	178	126	May-Sept.		141
Willamette at Salem[d]	3667	140	May-July		2619
	4402	139	May-Sept.		3165

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average [i]
Clackamas River	2	5145	280
McKenzie River	3	435	185
Row River	2	405	215
Santiam River	4	1005	205
Willamette, Mid. Fk.	4	385	185

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average [i]
Blue River	85.6*	71.5	67.1	- -
Cottage Grove	30.0*	23.7	27.1	23.4
Cougar	155.2*	124.1	101.1	108.6
Detroit	299.9*	233.2	177.9	250.2
Dorena	70.5*	56.7	65.6	54.8
Fall Creek	115.0*	93.8	101.7	96.7
Fern Ridge	94.2*	93.8	84.0	86.7
Foster	30.0*	21.9	23.6	18.6
Green Peter	270.0*	214.0	215.8	199.9
Hills Creek	200.0*	151.9	141.8	157.9
Lookout Point	337.2*	248.2	152.6	257.5
Timothy Lake	61.7	53.0	59.8	57.5

*Multiple purpose reservoir--space reserved primarily for flood runoff.

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK
ROGUE, UMPQUA, WATERSHEDS
OREGON
as of

MAY 1, 1974

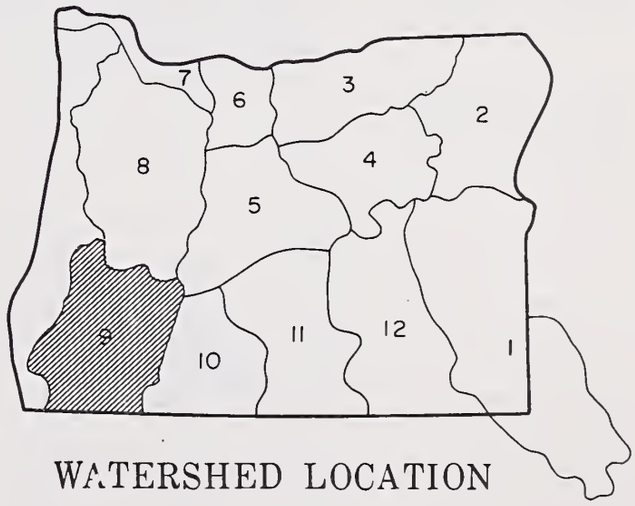
GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK IN THE ROGUE AND UMPQUA BASINS REMAINS EXCELLENT. THE SNOW COVER RANGES FROM 170% OF AVERAGE ON THE ROGUE UP TO 230% ON THE UMPQUA. WATER CONTENTS AT PARK HEADQUARTERS, ANNIE SPRINGS AND DIAMOND LAKE WERE ALLTIME RECORD MEASUREMENTS FOR MAY 1. PRECIPITATION DURING APRIL WAS 125% OF NORMAL. STREAMFLOW THIS PAST MONTH WAS MUCH ABOVE AVERAGE AND WILL CONTINUE SO UNTIL THE SNOWPACK HAS MELTED. MOST RESERVOIRS ARE FULL AND SPILLING.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Althouse Creek	Average	Average
Applegate River, Big	Excellent	Average
Applegate River, Little	Excellent	Average
Ashland Creek	Excellent	Excellent
Butte Creek, Big	Excellent	Excellent
Butte Creek, Little	Excellent	Excellent
Cow Creek	Average	Average
Deer Creek	Average	Average
Elk Creek	Average	Average
Emigrant Creek (abv. res.)	Average	Average
Evans Creek	Average	Average
Gold Hill Irrigation Dist.	Excellent	Average
Grants Pass Irrig. Dist.	Excellent	Average
Grave Creek	Excellent	Average
Illinois River, East Fork	Average	Average
Illinois River, West Fork	Average	Average
Jump-off-Joe Creek	Average	Average
Neil Creek	Average	Average
Red Blanket Creek	Excellent	Excellent
Rogue River	Excellent	Average
Sucker Creek	Average	Average
Table Rock Irrig. Dist.	Excellent	Average
Thompson Creek	Average	Average
Wagner Creek	Excellent	Average
Williams Creek	Average	Average



WATERSHED LOCATION

U.S.D.A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

Report prepared by
T.A. GEORGE and J.W. HAGLUND
SOIL CONSERVATION SERVICE
1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 97205

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average i
Applegate near Copper	111	137	May-July		81
	120	138	May-Sept.		87
Clearwater above Trap Creek[d]	71	124	May-Sept.		57
Fourmile Lake net Inflow[d]	5.1	170	May-July		3.0
Hyatt Reservoir net Inflow[d]	3.4	154	May-July		2.2
Illinois River near Kerby	102	112	May-July		91
	107	110	May-Sept.		97
Little Butte, N. Fk. at Fish Lake nr. Lake Cr.[d]	15.0	129	May-Sept.		11.6
Little Butte, S. Fk. near Lake Creek	23	143	May-July		16.1
	25	136	May-Sept.		18.4
Rogue above Prospect	260	141	May-July		184
	330	138	May-Sept.		239
Rogue, South Fork near Prospect[d]	62	135	May-July		46
	75	134	May-Sept.		56
Rogue at Raygold near Central Point	650	132	May-July		493
	815	126	May-Sept.		648
Rogue at Grants Pass	785	125	May-Sept.		627
Umpqua, No. blw. Lemolo Res. nr. Toketee Falls[d]	195	140	May-Sept.		139

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Little Butte Creek, South Fork	100	May 31	May 27
Rogue at Raygold	1200	Oct. 12	Aug. 7
	*2490	July 1	
	*1560	Aug. 15	

*Average daily cfs forecast to flow on this date.

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average i
Emigrant Lake	39.0	38.5	36.2	37.0*
Fish Lake	8.0	6.0	7.6	6.0
Fourmile Lake	16.1	9.6	12.2	10.7
Howard Prairie	60.0	60.6	49.5	44.9
Hyatt Prairie	16.1	16.2	12.1	14.0

*Average for years of record (in base period) after reconstruction.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average i
Applegate	-	-	-
Bear Creek	1	245	180
Butte Creek	3	405	205
Illinois River	-	-	-
North Umpqua	3	1555	230
Rogue River	4	305	170

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK
KLAMATH WATERSHEDS
OREGON
as of

MAY 1, 1974

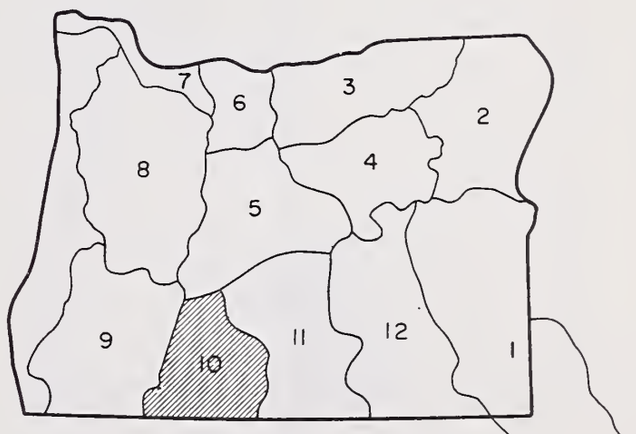
GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK IN THE KLAMATH BASIN REMAINS EXCELLENT. THE SNOW COVER IS 135% ON THE SPRAGUE RIVER AND 195% ON THE WILLIAMSON. RECORD MAY 1 WATER CONTENTS WERE MEASURED AT PARK HEADQUARTERS, ANNIE SPRINGS AND DIAMOND LAKE. PRECIPITATION DURING APRIL WAS 125% OF AVERAGE. RESERVOIR STORAGE IS ABOVE AVERAGE AND SUMMER STREAMFLOW SHOULD BE ABOVE AVERAGE.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Ft. Klamath Valley	Excellent	Excellent
Lost River (Clear Lake)	Excellent	Excellent
Lost River (Gerber)	Excellent	Excellent
Lost River (Willow Res.)	Excellent	Excellent
Sprague River	Excellent	Average
Upper Klamath Lake	Excellent	Excellent
Williamson River	Excellent	Excellent



WATERSHED LOCATION

U.S.D.A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

Report prepared by
T.A. GEORGE and J.W. HAGLUND
SOIL CONSERVATION SERVICE
1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 97205

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [i]
Clear Lake Reservoir Inflow[k]	17.0	112	May-Sept.		15.1
Gerber Reservoir Inflow[k]	5.8	121	May-Sept.	2.0	4.8
Sprague near Chiloquin	200	120	May-Sept.		166
Upper Klamath Lake net Inflow[k]	450	127	May-Sept.		353
Williamson below Sprague River	387	135	May-Sept.		287
	[illegible]	[illegible]	March-July		4 4
	4 7	[illegible]	April-Sept.		[illegible] 4

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	Average [i]
Upper Klamath	1	111	109

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Last Year	Average [i]
Clear Lake	440.2	325.4	387.1	266.5
Gerber	94.0	71.8	92.3	68.5
Upper Klamath Lake	584.0	516.2	532.3	517.4

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	Average [i]
Lost River	2	135	155
Sprague River	3	260	135
Upper Klamath	7	435	185
Williamson River	3	935	195

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK

LAKE COUNTY, GOOSE LAKE WATERSHEDS

OREGON

as of

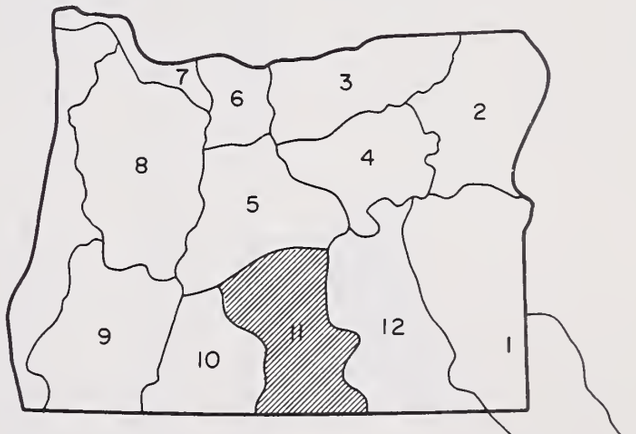
MAY 1, 1974

GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK FOR LAKE COUNTY IS NEAR AVERAGE TO EXCELLENT. THE SNOW COVER IS ABOVE NORMAL, ESPECIALLY AT THE HIGHER ELEVATIONS. PRECIPITATION WAS MUCH BELOW NORMAL IN THE NORTHERN PART OF THE COUNTY DURING APRIL AND NEAR AVERAGE IN THE SOUTH. THE IRRIGATION RESERVOIRS ARE FULL AND SPILLING. SUMMER STREAMFLOW VOLUMES WILL GENERALLY BE AVERAGE TO ABOVE.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Chewaucan River	Excellent	Average
Crooked Creek	Average	Average
Deep Creek	Excellent	Average
Dry Creek	Average	Average
East Side Goose Lake	Excellent	Average
Guano Lake	Average	Average
Honey Creek	Average	Average
Lakeview Water Users Assn.	Average	Average
Rock Creek (Hart Mountain)	Average	Average
Silver-Buck Creeks	Average	Average
Summer Lake	Excellent	Average
Thomas Creek	Average	Average
Twentymile Creek	Excellent	Average
Warner Lakes	Average	Average



WATERSHED LOCATION

U.S.D.A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

Report prepared by
T.A. GEORGE and J.W. HAGLUND
SOIL CONSERVATION SERVICE
1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 97205

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average *i*
Chewaucan near Paisley	71	127	May-July		56
	73	122	May-Sept.		60
Deep above Adel	54	126	May-July	26	43
	57	127	May-Sept	28	45
Drews Reservoir net Inflow [d]	10.6	109	May-July		9.7
Honey Creek near Plush	13.0	115	May-July	6.1	11.3
	13.1	115	May-Sept.	6.3	11.4
Silver Creek near Silver Lake	5.0	74	May-July		6.8
	5.1	71	May-Sept.		7.2
Twentymile near Adel	13.8	129	May-July	7.1	10.7
	13.9	125	May-Sept.	7.4	11.1

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	Average *i*
Chewaucan, Silver Creek, Drew Creek	1	111	109
Honey, Deep, 20-Mi. Cr.	1	98	99

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average *i*
Cottonwood	8.7	8.7	7.1	6.7*
Drews	63.0	63.0	61.5	55.3

*Average for years of record (in base period) after reconstruction.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	Average *i*
Chewaucan River	3	260	135
Deep Creek	2	130	155
Drew Creek	2	330	120
Honey Creek	1	-	20
Silver Creek	-	-	-
Twentymile Creek	-	-	-

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK
HARNEY BASIN WATERSHEDS
OREGON
as of

MAY 1, 1974

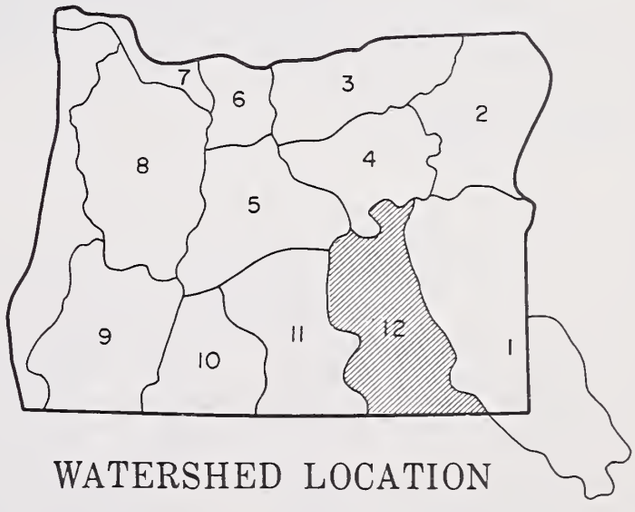
GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK FOR THE HARNEY BASIN IS NEAR AVERAGE IN THE STEENS DRAINAGES AND ABOVE AVERAGE ON THE SILVIES. THE SNOW COVER IS MUCH ABOVE NORMAL AT THE HIGHER ELEVATIONS OF THE COUNTY DUE TO DELAYED SNOWMELT. SUMMER STREAMFLOW WILL GENERALLY BE AVERAGE IN THE SOUTH HALF OF THE COUNTY AND ABOVE NORMAL IN THE NORTHERN HALF.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Catlow Valley	Average	Average
Cow Creek	Average	Average
Donner und Blitzen River	Average	Average
Mill-Coffeepot Creeks	Average	Average
Rattlesnake Creek	Average	Average
Silver Creek	Average	Average
Silvies River	Excellent	Excellent
Soldier-Prather Creek	Average	Average
Trout Creek	Average	Average
Whitehorse Creek	Average	Average



WATERSHED LOCATION

U.S.D.A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

Report prepared by
T.A. GEORGE and J.W. HAGLUND
SOIL CONSERVATION SERVICE
1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 97205

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [i]
Donner und Blitzen near Frenchglen	38	104	May-July		37
	43	103	May-Sept.		42
Silver near Riley	5.5	108	May-July		5.1
Silvies River near Burns	47	142	May-July	10.0	33
	48	138	May-Sept.	10.6	35
Trout Creek near Denio	7.0	120	May-July		5.8
	7.4	120	May-Sept.		6.2

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	Average [i]
Silvies River, Silver Cr. Trout Cr., Donner und Blitzen River	1	119	104
	c		

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	Average [i]
Donner und Blitzen R.	-	-	-
Silver Creek	-	-	-
Silvies River	4	835	195
Trout Creek	-	-	-

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72 adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

BASIC DATA SUPPLEMENT 1

MAY 1, 1974

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR: Date of Survey	Snow Depth (In.)	Water Cont. (In.)	PAST REC.: Water Content (inches) Last Yr.	Ave.[i]
OWYHEE, MALHEUR WATERSHEDS					
Antelope Ridge (Ida.)	c				
Battle Creek[e] (Ida.)	c				
Bear Creek[e] (Nev.)	4/29	46	18.8	27.8	20.1
Big Bend (Nev.)	4/30	2	0.9	4.3	1.3
Blue Mountain Springs	4/29	46	21.2	3.0	10.2
Blue Mtn. Springs Pillow*	4/29	-	17.3	0.2	- -
Buck Pasture[e]	c				
Buckskin, Lower (Nev.)	c				
Buckskin, Upper (Nev.)	c				
Bull Basin[e] (Ida.)	c				
Bully Creek[e]	c				
Call Meadow[e]	c				
Columbia Basin[e] (Nev.)	c				
Cottonwood-Indian[e]	c				
Crane Prairie	c				
Disaster Peak (Nev.)	c				
Eldorado Pass	4/26	0	0.0	0.0	0.0[h]
Fawn Creek (Nev.)	c				
Fish Creek	c				
Fish Creek Pillow*	c				
Flag Prairie[e]	c				
Fox Creek (Nev.)	c				
Fry Canyon (Nev.)	4/30	0	0.0	0.5	1.1
Gold Creek (Nev.)	4/30	0	0.0	0.0	0.3
Granite Peak (Nev.)	c				
Hyde Pasture[e] (Ida.)	c				
Jack Creek, Lower (Nev.)	5/1	0	0.0	0.0	0.1
Jack Creek, Upper (Nev.)	5/1	3	1.4	8.0	3.4
Jack Peak (Nev.)	5/1	84	35.1	26.1	26.7
Lake Creek R. S.	c				
Laurel Draw (Nev.)	c				
Logan Valley[e]	c				
Lookout Butte[e]	c				
Louse Canyon[e]	c				
Martin Creek (Nev.)	c				
Merritt Mountain[e] (Nev.)	c				
Midas (Nev.)	c				
Mud Flat (Ida.)	c				
Oregon Canyon[e]	c				
Quinn Ridge[e] (Nev.)	c				
Red Canyon[e] (Ida.)	c				
Rock Spring	4/26	0	0.0	0.0	0.3[h]
Rodeo Flat (Nev.)	4/30	0	0.0	2.5	1.1
76 Creek (Nev.)	c				
Silver City (Ida.)	4/27	33	15.1	4.7	8.3[h]
Silvies	c				
Silvies Pillow*	c				
South Mountain #2 (Ida.)	5/2	17	8.9	2.8	6.9[h]
Stag Mountain[e] (Nev.)	c				
Stinking Water	4/29	0	0.0	0.0	0.0[m]
Succor Creek[e] (Ida.)	c				
Taylor Canyon (Nev.)	5/1	0	0.0	0.0	0.1
Toe Jam[e] (Nev.)	c				
Tremewan Ranch (Nev.)	4/30	0	0.0	0.0	0.0
Triangle[e] (Ida.)	c				
Trout Creek[e]	c				
"V" Lake[e]	c				
Vaught Ranch[e] (Ida.)	c				
War Eagle[e] (Ida.)	c				

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR: Date of Survey	Snow Depth (In.)	Water Cont. (In.)	PAST REC.: Water Content (inches) Last Yr.	Ave.[i]
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS					
Aneroid Lake #1	4/25	134	63.0	27.8	40.7[h]
Aneroid Lake #2	4/25	121	56.2	26.0	36.2[h]
Anthony Lake	4/29	97	41.2	18.7	30.4
Bald Mountain[e] (Ore.)	4/30	75	34.5	9.7	22.5[m]
Beaver Reservoir (Rev.)[1/]	4/28	37	14.0	3.2	9.2
Big Sheep[e]	4/30	82	37.7	15.1	24.5[m]
Blue Mtn. Summit	4/29	10	3.8	0.0	1.7
Bourne	4/26	42	16.8	2.2	7.4
County Line	4/30	0	0.0	0.0	0.4[m]
Dooley Mountain	4/24	3	1.4	0.0	2.1
Eilertson Meadows	4/25	23	9.0	0.0	4.7
Eldorado Pass	4/26	0	0.0	0.0	0.0[h]
Gold Center	4/26	27	12.0	0.0	4.4
Goodrich Lake	5/1	124	66.0	27.1	38.5[m]
Intake House	4/25	15	5.7	0.0	4.8[h]
Little Alps	4/29	56	21.4	6.6	13.7[h]
Little Antone	4/29	0	0.0	0.0	0.0[m]
Little Antone (Alternate)	4/29	0	0.0	- -	- -[h]
Lucky Strike	4/30	24	9.9	3.2	9.2
Lucky Strike Pillow*	b			0.0	- -
Meacham	4/29	31	14.6	0.0	1.8
Mirror Lake[e]	b			55.0	79.3[m]
Moss Spring	4/30	85	38.4	12.8	23.3
Power Plant	4/25	0	0.0	0.0	0.0[m]
Schneider Meadow	4/29	92	45.3	20.5	25.4[h]
Schoolmarm	4/30	0	0.0	0.0	0.1[h]
Standley[e]	4/30	110	50.6	27.3	35.3[m]
Taylor Green	4/30	47	22.2	5.0	12.8[h]
Tipton	4/29	11	4.6	0.0	1.8
Tipton Snow Pillow*	4/29	-	13.8	0.6	- -
Tollgate	4/26	104	52.9	7.0	19.2
TV Ridge[e]	4/30	69	31.7	15.1	25.2
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS					
Arbuckle Mountain	4/29	7	3.3	0.0	2.8
Arbuckle Mtn. Pillow*	4/29	-	32.9	12.9	- -
Battle Mountain Summit	4/29	0	0.0	0.0	0.2[h]
Blue Mountain Camp	4/26	50	25.0	0.0	5.1[h]
Butte Creek Summit	c				
Emigrant Springs	4/29	0	0.0	0.0	0.4
High Ridge Pillow*	4/29	-	57.2[g]	15.9	- -
Lucky Strike	4/30	24	9.9	3.2	9.2[h]
Lucky Strike Pillow*	b			0.0	- -
Meacham	4/29	31	14.6	0.0	1.8
Tollgate	4/26	104	52.9	7.0	19.2

BASIC DATA SUPPLEMENT 1

MAY 1, 1974

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR Date of Survey	Snow Depth (In.)	Water Cont. (In.)	PAST REC. Water Content (inches) Last Yr.	Ave.	
UPPER JOHN DAY WATERSHEDS						
Anthony Lake	4/29	97	41.2	18.7	30.4	
Arbuckle Mountain	4/29	7	3.3	0.0	2.8	
Arbuckle Mt. Pillow*	4/29	-	32.9	12.9	- -	
Battle Mountain Summit	4/29	0	0.0	0.0	0.2	h
Blue Mountain Springs	4/29	46	21.2	3.0	10.2	
Blue Mt. Springs Pillow*	4/29	-	17.3	0.2	- -	
Blue Mountain Summit	4/29	10	3.8	0.0	1.7	
Butte Creek Summit	c					
Derr	c					
Gold Center	4/26	27	12.0	0.0	4.4	
Indian Creek Butte e	c					
Izee Summit	4/26	7	2.5	0.0	1.9	
Lucky Strike	4/30	24	9.9	3.2	9.2	h
Lucky Strike Pillow*	b			0.0	- -	
Marks Creek	5/1	0	0.0	0.0	0.0	h
Ochoco Meadows	c					
Olive Lake e	4/29	71	32.7	7.0	19.8	
Schoolmarm	4/30	0	0.0	0.0	0.1	h
Snow Mountain	c					
Snow Mt. Pillow**	5/1	-	13.9	2.2	- -	
Starr Ridge	4/26	4	1.4	0.0	0.4	
Tipton	4/29	11	4.6	0.0	1.8	
Tipton Snow Pillow*	4/29	-	13.8	0.6	- -	
UPPER DESCHUTES, CROOKED WATERSHEDS						
Bald Peter	4/29	133	60.5	11.6	- -	
Caldwell Ranch	c					
Cascade Summit	4/29	103	46.4	11.0	24.8	
Chemult	4/27	5	1.7	0.0	0.8	h
Chemult Alternate	4/27	10	4.3	0.0	- -	
Derr	c					
Hogg Pass	4/30	143	71.6	12.1	41.3	
Hungry Flat	4/25	0	0.0	0.0	0.0	
Irish-Taylor Pillow** 1/	4/30	-	71.8 g	30.0	- -	
Lionshead e	4/29	36	16.2	- -	- -	
Marks Creek	5/1	0	0.0	0.0	0.0	h
New Crescent Lake	4/29	41	16.6	0.0	4.4	
New Dutchman Flat #2	4/30	181	96.4	32.7	54.0	
Ochoco Meadows	c					
Racing Creek	4/29	63	28.8	0.0	- -	
Snow Mountain	c					
Snow Mt. Pillow**	5/1	-	13.9	2.2	- -	
Tamarack	c					
Tangent	4/25	86	40.2	T	12.3	
Three Creek Butte	5/1	14	5.9	0.0	1.6	
Three Creek Meadow	5/1	58	27.7	2.6	13.7	
Three Creek Mdw. Pillow**	5/1	-	38.4	4.4	- -	
Waldo Lake	c					
Whitewater Meadow e	4/29	0	0.0	- -	- -	
Willamette Pass	4/29	144	72.5	24.5	42.3	
Willamette Pass Pillow**						

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR Date of Survey	Snow Depth (In.)	Water Cont. (In.)	PAST REC. Water Content (inches) Last Yr.	Ave.	
HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS						
Brooks Meadows	c					
Clear Lake	4/25	42	16.8	0.0	5.0	
Clear Lake (Experimental)	4/25	70	29.2	0.8	9.7	h
Cooper Spur (Revised) 1/	5/3	25	9.7	- -	- -	
Greenpoint	c					
Knebal Springs	c					
Mt. Hood Test Site 1/	4/30	239	105.9	33.7	67.6	
Parkdale	c					
Red Hill	c					
Still Creek	4/25	104	50.3	5.1	20.1	
Still Creek Alt. #2	4/25	107	51.8	6.7	- -	
Switchback	c					
Tilly Jane	c					
Ulrich Ranch Junction	c					
Umbrella Falls	5/5	226	107.9	32.8	70.7	h
Upper Valley	c					
WILLAMETTE WATERSHEDS						
Cascade Summit	4/29	103	46.4	11.0	24.8	
Champion	4/29	124	61.9	15.3	26.9	m
Clackamas Lake	c					
Clear Lake	4/25	42	16.8	0.0	5.0	
Clear Lake (Expt.)	4/25	70	29.2	0.8	9.7	h
Dead Horse Grade	4/30	54	25.8	0.0	11.0	
Detroit (Town)	4/30	0	0.0	0.0	0.0	
Detroit Dam	4/30	0	0.0	0.0	0.0	
Fawn Meadow (USFS)	5/1	112	53.8	11.0	41.5	m
Golden Curry Creek	4/29	0	0.0	0.0	1.9	
Hogg Pass	4/30	143	71.6	12.1	41.3	
Lake Harriet	4/30	0	0.0	- -	- -	
Laurel Mountain	c					
Layng Creek	4/29	0	0.0	0.0	0.0	m
Lemiti Meadow (USFS)	5/1	84	36.8	0.0	23.5	m
Lookout Point Dam	4/29	0	0.0	0.0	0.0	
Lost Creek Ranch	4/30	0	0.0	0.0	0.0	
Lund Park	4/29	0	0.0	0.0	0.0	
Marion Forks	4/30	28	13.3	0.0	5.0	h
Marys Peak (Revised) 1/	c					
McCredie Springs	4/29	0	0.0	0.0	0.0	
McKenzie	4/30	153	78.9	24.2	44.9	
McKenzie Bridge	4/30	0	0.0	0.0	0.0	
Mill City	4/30	0	0.0	0.0	0.2	
Mt. Hood Test Site** 1/	4/30	239	105.9	33.7	67.6	
Oakridge	4/29	0	0.0	0.0	0.0	
Olallie Meadow (USFS)	5/1	112	54.0	- -	- -	
Peavine Ridge Pillow**	4/30		29.5	0.9	11.6	h
Power Line (USFS)	5/1	93	32.7	10.0	22.5	m
Railroad Overpass	4/29	0	0.0	0.0	0.0	
Saddle Mountain Pillow**	5/1	-	2.9	0.0	- -	
Salt Creek Falls	4/29	50	21.8	1.0	9.6	
Santiam Junction	4/30	73	36.5	0.0	13.3	
Seine Creek Pillow**	5/1	-	0.0	0.0	- -	
Still Creek	4/25	104	50.3	5.1	20.1	
Still Creek Alt. #2	4/25	107	51.8	6.7	- -	
Timothy Lake	4/30	70	31.1	- -	- -	
Valsetz Summit	c					
Vida	4/30	0	0.0	0.0	0.0	
Waldo Lake	c					
Weaver Creek	4/29	0	0.0	0.0	0.0	m
White Branch Slide	4/30	0	0.0	0.0	0.4	
Whitewater Bridge	4/30	0	0.0	0.0	0.0	
Willamette Pass	4/29	144	72.5	24.5	42.3	
Willamette Pass Pillow**	b					

BASIC DATA SUPPLEMENT 1

MAY 1, 1974

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR: Date of Survey	Snow Depth (In.)	Water Cont (In.)	PAST REC.: Water Content (inches) Last Yr.	Ave. [i]
ROGUE, UMPQUA WATERSHEDS					
Althouse (Revised) [1/]	c				
Annie Spring	5/3	152	78.5	33.2	44.4
Beaver Dam Creek	5/6	18	8.6	0.0	7.3 [m]
Big Red Mountain	c				
Billie Creek Divide	4/30	63	27.5	9.4	12.0 [h]
Caliban	4/29	144	70.3	28.5	39.4 [m]
Caliban (Alternate)	4/29	152	70.0	- -	- -
Champion	4/29	124	61.9	15.3	26.9 [m]
Cold Springs Camp	5/1	114	48.5	22.8	32.2 [h]
Cold Spgs. Camp Pillow**	5/1	-	41.9	20.1	- -
Deadwood Junction	5/6	0	0.0	0.0	2.8 [m]
Diamond-Crater Sum. (Rev) [1/]	4/30	112	52.7	14.8	29.9 [h]
Diamond Lake	4/30	78	33.9	3.8	16.7
Fish Lake	4/29	38	16.1	3.5	6.2 [h]
Fourmile Lake	4/29	66	31.4	15.8	19.7 [h]
Grayback Peak	c				
Howard Prairie Reservoir	5/6	0	0.0	0.0	2.4 [m]
Hyatt Prairie	c				
King Mountain #1	4/28	13	6.2	T	5.5 [m]
King Mountain #2	4/28	0	0.0	0.0	3.1 [m]
King Mountain #3	4/28	0	0.0	0.0	0.0 [m]
King Mountain #4	4/28	0	0.0	0.0	0.0 [m]
King Mountain #5	4/28	0	0.0	0.0	0.0 [m]
King Mountain #6	4/28	0	0.0	0.0	0.0 [m]
Little Red Mountain	c				
Mt. Ashland Switchback	4/29	153	67.8	27.8	37.6 [m]
Mule Creek	4/28	0	0.0	0.0	- -
North Umpqua	5/2	34	16.1	0.0	4.6 [h]
Page Mountain	c				
Park Headquarters	5/3	201	104.1	45.7	61.2
Red Butte #1	4/27	52	24.7	0.2	11.7 [m]
Red Butte #2	4/27	8	3.2	0.0	4.0 [m]
Red Butte #3	4/27	0	0.0	0.0	1.0 [m]
Red Butte #4	4/27	0	0.0	0.0	0.0 [m]
Red Butte #5	4/27	0	0.0	0.0	0.0 [m]
Red Butte #6	4/27	0	0.0	0.0	0.0 [m]
Seven Lakes #2	c				
Seven Mile	c				
Silver Burn	4/30	0	0.0	0.0	3.3
Siskiyou Summit (Rev.) [1/]	4/30	0	0.0	0.0	- -
Ski Bowl Road	4/29	102	47.6	16.5	25.4 [m]
South Fork Canal	5/1	0	0.0	0.0	0.0
Trap Creek	5/2	22	9.2	0.0	4.2 [h]
Whaleback	c				

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR: Date of Survey	Snow Depth (In.)	Water Cont. (In.)	PAST REC.: Water Content (inches) Last Yr.	Ave. [i]
KLAMATH WATERSHEDS					
Annie Spring	5/3	152	78.5	33.2	44.4
Billie Creek Divide	4/30	63	27.5	9.4	12.0 [h]
Chemult	4/27	5	1.7	0.0	0.8 [h]
Chemult (Alternate)	4/27	10	4.3	0.0	- -
Chiloquin (PP&L)	c				
Cold Springs Camp	5/1	114	48.5	22.8	32.2 [h]
Cold Springs Camp Pillow**	5/1	-	41.9	20.1	- -
Crazyman Flat [e]	4/27	22	8.8	1.4	5.4 [m]
Crowder Flat [e] (Calif.)	c				
Crystal (PP&L)	c				
Diamond-Crater Sum (Rev) [1/]	4/30	112	52.7	14.8	29.9 [h]
Diamond Lake Junction (97)	4/30	0	0.0	0.0	0.0 [h]
Dog Hollow [e]	c				
Finley Corrals [e]	4/27	26	10.9	4.1	9.0 [m]
Fort Klamath (PP&L)	c				
Fourmile Lake	4/29	66	31.4	15.8	19.7 [h]
Gerber	c				
Harriman (PP&L)	c				
Howard Prairie	5/6	0	0.0	0.0	2.4 [m]
Hyatt Prairie Reservoir	c				
Kirk (PP&L)	c				
Lake of the Woods	4/29	28	9.8	0.0	5.2 [h]
Park Headquarters	5/3	201	104.1	45.7	61.2
Quartz Mountain	4/30	0	0.0	0.0	0.5
Seven Lakes #2	c				
Seven Mile	c				
State Line [e] (Calif.)	c				
Strawberry	4/27	6	2.3	0.7	1.4 [h]
Summer Rim [e]	4/27	50	23.0	8.9	15.6 [m]
Summer Rim Pillow*	c				
Sycan Flat [e]	c				
Taylor Butte	4/30	0	0.0	0.0	0.7 [h]
LAKE COUNTY, GOOSE LAKE WATERSHEDS					
Adin Mountain (Calif.)	4/26	37	16.4	3.1	4.8
Bald Mountain (Nev.)	c				
Bear Flat Meadow	c				
Camas Creek	5/2	2	0.8	0.0	3.6 [m]
Cedar Pass (Calif.)	4/29	46	22.0	17.0	11.1
Colvin Creek	c				
Cox Flat	c				
Crowder Flat (Calif.)	c				
Dismal Swamp (Calif.)	c				
Finley Corrals	4/27	26	10.9	4.1	9.0 [m]
Hart Mountain	c				
Little Bally Mtn. (Nev.)	c				
Mt. Bidwell (Calif.)	c				
North Star (Calif.)	c				
Patton Meadows	4/27	46	21.2	13.3	13.3 [m]
Quartz Mountain	4/30	0	0.0	0.0	0.5
Sherman Valley	c				
Silver Creek	c				
State Line (Calif.)	c				
Strawberry	4/27	6	2.3	0.7	1.4 [h]
Summer Rim	4/27	50	23.0	8.9	15.6 [m]
Summer Rim Pillow*	c				
Sycan Flat	c				
Willow Creek	c				

BASIC DATA SUPPLEMENT 1

MAY 1, 1974

SNOW	THIS YEAR			PAST REC.	
DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches) Last Yr.	Ave. [i]
HARNEY BASIN WATERSHEDS					
Blue Mountain Springs	4/29	46	21.2	3.0	10.2
Blue Mtn. Springs Pillow*	4/29	-	17.3	0.2	- -
Buck Pasture [e]	c				
Buckskin Lake [e]	c				
Call Meadows [e]	c				
Delintment Lake	c				
Denio Creek [e]	c				
Disaster Peak (Nev.)	c				
Emigrant Butte	c				
Fish Creek	c				
Fish Creek Pillow*	c				
Hart Mountain [e]	c				
Idlewild Camp	4/30	0	0.0	0.0	0.3 [h]
Idlewild Camp Alternate	4/30	0	0.0	0.0	- -
Izee Summit	4/26	7	2.5	0.0	1.9
Lake Creek R.S.	c				
Oregon Canyon [e]	c				
Rock Spring	4/26	0	0.0	0.0	0.3 [h]
Silvies	c				
Silvies Pillow*	c				
Snow Mountain	c				
Snow Mountain Pillow**	5/1	-	13.9	2.2	- -
Starr Ridge	4/26	4	1.4	0.0	0.4
Stinking Water	4/29	0	0.0	0.0	0.0 [m]
"V" Lake [e]	c				
Trout Creek [e]	c				

SNOW	THIS YEAR			PAST REC.	
DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches) Last Yr.	Ave. [i]

*Manometer Reading.
**Telemetry Reading.
1/ Location has been changed--surveys are made on an alternite site and data has been revised accordingly.

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72 adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report – data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

BASIC DATA SUPPLEMENT 2

MAY 1, 1974

SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average [1]
OWYHEE, MALHEUR WATERSHEDS							
Bear Creek (Nev.)	7800	72	16.8	[c]			
Big Bend (Nev.)	6700	48	16.7	4/30	10.9	- -	15.6
Blue Mountain Spring	5900	42	16.9	4/29	12.1	13.5	13.1 [m]
Jordan Valley	4390	48	19.3			16.8	15.7 [m]
Mud Flat (Ida.)	5500	48	12.8	[c]		- -	- -
Rodeo Flat (Nev.)	6800	42	11.0	4/30	7.6	8.0	9.8
Taylor Canyon (Nev.)	6200	48	15.1	5/1	15.1	- -	14.0
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS							
Blue Mountain Summit	5100	36	16.8	4/29	16.5	12.8	14.8
Dooley Mountain	5430	36	9.2	4/24	7.1	6.7	6.8 [m]
Emigrant Springs	3925	48	22.3	4/29	21.3	21.0	21.2 [m]
Ladd Summit	3730	48	18.9	[b]		9.8	12.3 [m]
Moss Springs	5850	36	25.8	4/30	16.4	16.3	15.9 [m]
Tollgate	5070	48	23.6	4/26	16.0	18.3	19.0 [m]
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	4/29	13.7	13.6	13.5 [m]
Emigrant Springs	3925	48	22.3	4/29	21.3	21.0	21.2 [m]
Tollgate	5070	48	23.6	4/26	16.0	18.3	19.0 [m]
UPPER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	4/29	13.7	13.6	13.5 [m]
Blue Mountain Spring	5900	42	16.9	4/29	12.1	13.5	13.1 [m]
Blue Mountain Summit	5100	36	16.8	4/29	16.5	12.8	14.8
Derr	5670	24	9.0	[c]			
Marks Creek	4540	36	14.1	4/26	13.4	11.8	13.3
Snow Mountain	6300	48	16.7	[c]			
Starr Ridge	5150	36	10.6	4/26	10.6	9.8	10.4 [m]
UPPER DESCHUTES, CROOKED WATERSHEDS							
Derr	5670	24	9.0	[c]			
Marks Creek	4540	36	14.1	4/26	13.4	11.8	13.3
Snow Mountain	6300	48	16.7	[c]			
KLAMATH WATERSHEDS							
Quartz Mountain	5230	48	15.3	4/29	10.4	9.4	9.5 [m]

BASIC DATA SUPPLEMENT 2

MAY 1, 1974

SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average [i]
LAKE COUNTY, GOOSE LAKE WATERSHEDS							
Camas Creek	5720	42	14.5	5/2	13.0	13.2	13.1 [m]
Quartz Mountain	5230	48	15.3	4/29	10.4	9.4	9.5 [m]
HARNEY BASIN WATERSHEDS							
Blue Mountain Spring	5900	42	16.9	4/29	12.1	13.5	13.1 [m]
Silvies	6900	48	16.4	[c]			
Snow Mountain	6300	48	16.7	[c]			
Starr Ridge	5150	36	10.6	4/26	10.6	9.8	10.4 [m]
Willow-Bald	5000	24	6.6	4/30	6.6	4.6	6.1 [m]

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

BASIC DATA SUPPLEMENT 3

MAY 1, 1974

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION		PAST RECORD	
		Date of Reading	Precip-itation	Last Year	Average [i]
Arbuckle Mountain (Morrow County)	5400	From 3/27 to 4/29	5.60	1.93	
Camas Creek (Lake County)	5825	From 3/29 to 5/2	2.00		
County Line (Umatilla County--Starkey Hdqs.)	4800	From 3/28 to 4/30	3.10		
Eilertson Meadow (Baker County)	5400	From 3/26 to 4/25	1.75		
Goodrich Lake (Baker County)	6775	From 3/28 to 5/1	2.88		
Lucky Strike (Umatilla County)	5050	From 3/28 to 4/30	6.00	4.10	
Marks Creek (Crook-Wheeler Cos.)	4540	From 3/29 to 4/26	2.00		
Quartz Mt. Summit (Lake County)	6300	From 3/29 to 4/29	3.05	1.54	
Strawberry (Lake County)	5760	From 3/31 to 4/27	2.15	1.95	
Taylor Butte (Klamath County)	5040	From 3/21 to 4/30	4.04	1.80	
Taylor Green (Union County	5800	From 4/4 to 4/30	3.00	2.00	

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report – data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

NUMBER	NAME		LOCATION SEC	TWP	RGE	ELEV

OWYHEE, MALHEUR WATERSHEDS (3)

Owyhee River

1858	Antelope Ridge	(Ida)	20	8S	1E	5900
1858a	Battle Creek	(Ida)	10	11S	1E	5700
1861M	Bear Creek	(Nev)	31	46N	58E	7800
1854MP	Big Sand	(Nev)	30	45N	56E	6700
1752	Bucksk1n, Lower	(Nev)	25	45N	39E	6700
1761	Bucksk1n, Upper	(Nev)	11	45N	39E	7200
1851Da	Bull Basin	(Ida)	29	12S	5W	5600
1846a	Columbia Sasin	(Nev)	31	44N	53E	6650
1851	Disaster Peak	(Nev)	6	47N	34E	6500
1848a	Fawn Creek	(Nev)	2	45N	52E	7000
1852PA	Fish Creek		4	33S	33E	7900
1842	Fox Creek	(Nev)	33	46N	56E	6800
1847	Fry Canyon	(Nev)	31	43N	54E	6700
1845	Golc Creek	(Nev)	31	45N	56E	6600
1744	Granite Peak	(Nev)	22	44N	39E	7800
1855a	Hyae Pasture	(Ida)	31	8S	2W	5800
1851M	Jack Creek, Lower	(Nev)	18	42N	53E	6800
1842A	Jack Creek, Upper	(Nev)	9	42N	53E	7250
1844	Jack Peak	(Nev)	28	42N	53E	5420
1763=	Jordan Valley		2	30S	46E	4390
1845	Laurel Draw	(Nev)	20	45N	53E	6700
1765a	Lookout Butte		2	40S	47E	3650
1784	Louse Canyon		27	40S	44E	6440
1743	Martin Creek	(Nev)	18	44N	40E	6700
1842Da	Merritt Mountain	(Nev)	10	46N	54E	7000

16H3AP	Midas	(Nev)	18	39N	46E	7200
16G7MP	Mud Flat	(Ida)	34	9S	2W	5600
1765a	Oregon Canyon			8	40S	40E	6950
17N6a	Quinn Ridge	(Nev)	9	47N	41E	6300
16G11a	Red Canyon	(Ida)	32	11S	4W	6650
15H6MP	Rodeo Flat	(Nev)	36	43N	53E	6800
15H3A	76 Creek	(Nev)	6	44N	58E	7100
16F3AP*	Silver City	(Ida)	6	5S	3W	6400
16G1PA	Silvies		35	32S	33E	6900
16G1P	South Mountain No. 2	(Ida)	10	8S	5W	6340
15H19a	Stag Mountain	(Nev)	32	41N	58E	7800
16F6a	Succor Creek	(Ida)	25	3S	5W	6100
15H9MP	Taylor Canyon	(Nev)	35	39N	53E	6200
16H7a	Toe Jam	(Nev)	29	40N	50E	7700
15H8	Tremewan Ranch	(Nev)	9	39N	55E	5700
16G4MA	Triangle	(Ida)	25	7S	3W	5150
18G5a	Trout Creek		10	41S	38E	7800
18G7a	"V" Lake		31	35=S	32½E	6600
16G12a	Vaught Ranch	(Ida)	10	11S	1W	5950
16G13a	War Eagle	(Ida)	20	5S	3W	7700

Malheur River

18E16MP	Blue Mountain Springs		21	15S	35E	5900
18F5a	Buck Pasture		28	29S	35E	5300
18E21a	Bully Creek		11	17S	37E	5300
18F7a	Call Meadows		29	20S	33E	5340
17F2a	Cottonwood-Indian		3	19S	39E	4320
18E19M	Crane Prairie		24	16S	34E	5375

18E20	Eldorado Pass		20	14S	38E	4600
18E26a	Flag Prairie		32	16S	36E	4750
18E18	Lake Creek		10	16S	33½E	5200
18E22a	Logan Valley		13	16S	33½E	5100
18F1	Rock Spring		23	18S	32E	5100
18E32p*	S. Fk. Willow Cr.		2	16S	37E	5500
18F4P	Stinking Water		34	21S	34E	4800

BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS (2)

Burnt River

18E13M	Blue Mountain Summit		6	12S	36E	5098
17E1MP	Cooley Mountain		32	11S	40E	5430
18E20	Eldorado Pass		20	14S	38E	4600
18E8	Gold Center		21	9S	36E	5340
18E9P	Tipton		34	10S	35E	5100

Powder River

18E1P	Anthony Lake		18	7S	37E	7125
18E5	Bourne		33	8S	37E	5800
17E1MP	Dooley Mountain		32	11S	40E	5430
18E3	Eilertson Meadows		18	8S	38E	5400
18E8	Gold Center		21	9S	36E	5340
18E6A	Goodrich Lake		4	9S	38E	6775
18E29	Intake House		5	8S	38E	4930
17D12m	Ladd Summit		5	5S	39E	3730

18E23	Little Alps		10	7S	37E	6200
18E30	Little Antone		1	7S	37E	5000
18E28	Power Plant		33	7S	38E	3990
1707P	Taylor Green		3	6S	42E	5740

Pine Creek

1708	Schneider Meadows		35	6S	45E	5400

Grande Ronde River

1701	Aneroid Lake No. 1		16	4S	45E	7480
1702P	Aneroid Lake No. 2		16	4S	45E	7300
18E1P	Anthony Lake		18	7S	37E	7125
17010a	Bald Mountain	14 &	15	4S	41E	6700
1809	Beaver Reservoir		8	5S	37E	5150
1808P	County Line		28	4S	34E	4800
1806P	Lucky Strike		28	3S	32E	5050
1805	Meacham		24	1S	35E	4300
18020	Meacham Snow Pillow		35	1S	35E	4150
17013a	Mirror Lake		34	4S	44E	8200
1706N	Moss Spring		28	3S	41E	5850
1807	Schoolmarm		28	4S	34E	4775
17011a	Standley		21	2S	42E	7400
1707P	Taylor Green		3	6S	42E	5740
1803	Tollgate		32	4N	38E	5070
17016a	TV Ridge No. 2		12	2S	43E	7000

Imnaha River

1701	Aneroid Lake No. 1		16	4S	45E	7480
1702P	Aneroid Lake No. 2		16	4S	45E	7300
17014a	Big Sheep		33	4S	46E	6200

UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS (3)

Umatilla River

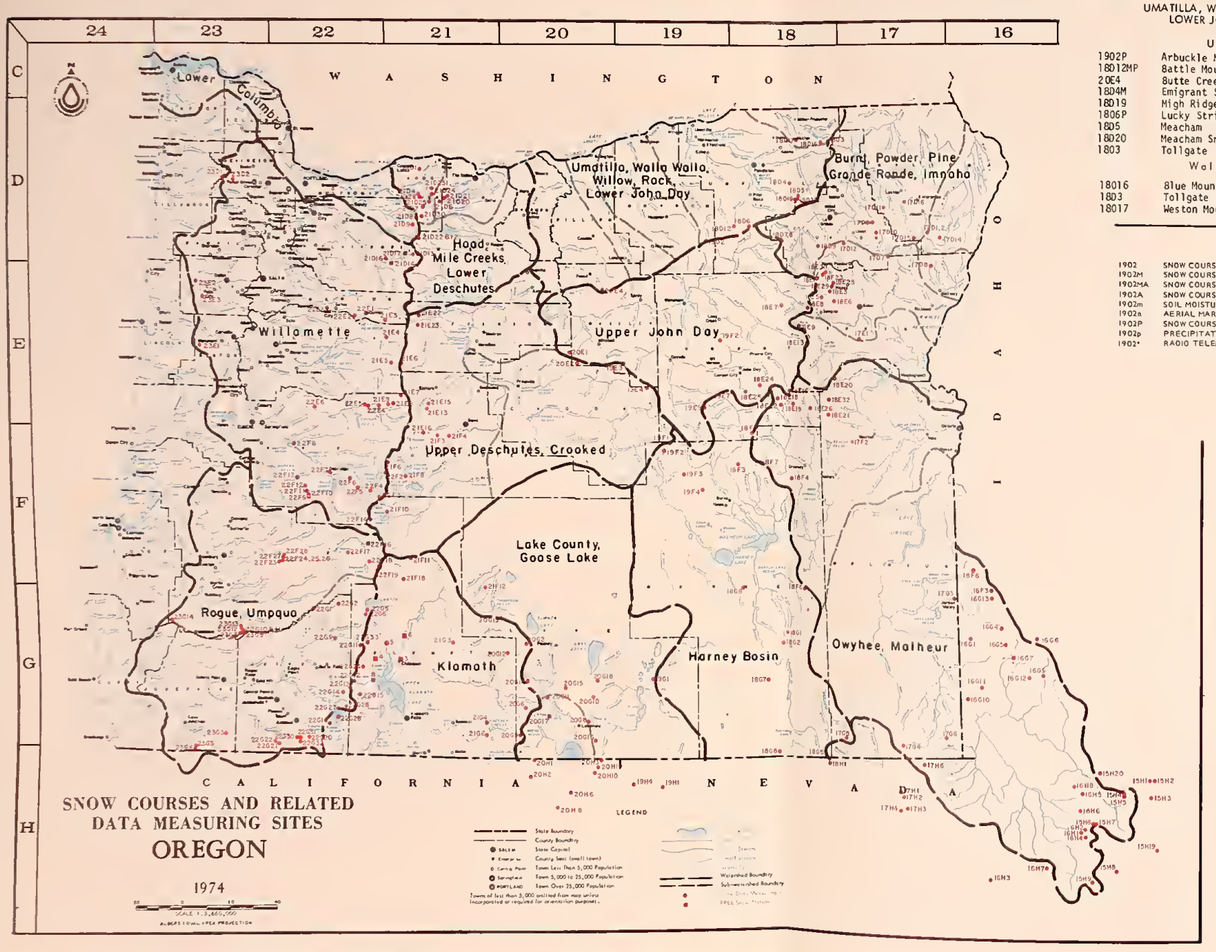
1902P	Arbuckle Mountain		33	4S	29E	5400
18012MP	Battle Mountain Summit		29	3S	31E	4340
20E4	Butte Creek Summit		5	8S	22E	3930
1804M	Emigrant Springs		29	1N	35E	3925
18019	High Ridge Pillow		31	1S	35E	4150
1806P	Lucky Strike		28	3S	32E	5050
1805	Meacham		24	1S	35E	4300
18020	Meacham Snow Pillow		35	1S	35E	4150
1803	Tollgate		32	4N	38E	5070

Walla Walla River

18016	Blue Mountain Camp		35	4N	37E	4300
1803	Tollgate		32	4N	38E	5070
18017	Weston Mountain		25	4N	35E	2700

LEGEND

1902	SNOW COURSE ONLY
1902M	SNOW COURSE AND SOIL MOISTURE
1902MA	SNOW COURSE, SOIL MOISTURE AND AERIAL MARKER
1902A	SNOW COURSE AND AERIAL MARKER
1902m	SOIL MOISTURE ONLY
1902a	AERIAL MARKER ONLY
1902P	SNOW COURSE AND PRECIPITATION GAGE
1902p	PRECIPITATION GAGE ONLY
1902*	RADIO TELEMETRY



SNOW COURSES AND RELATED DATA MEASURING SITES
OREGON
1974

SCALE 1:1,000,000
ALBERS EQUAL AREA PROJECTION

U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE PORTLAND, OREG. 1971 M7-0-22026-N

NUMBER	NAME		LOCATION SEC	TWP	RGE	ELEV

Willow Creek

1902P	Arbuckle Mountain		33	4S	29E	5400
18E1P	Anthony Lake		18	7S	37E	7125

UPPER JOHN DAY WATERSHEDS (4)

Upper John Day River

1902P	Arbuckle Mountain		33	4S	29E	5400
18012MP	Battle Mountain Summit		29	3S	31E	4340
18E16MP	Beech Creek Summit	32 &	33	11S	30E	4650
18E13M	Blue Mountain Springs		21	15S	35E	5900
20E4	Blue Mountain Summit		6	12S	36E	5098
19E3MP	Butte Creek Summit		5	8S	22E	3930
18E8	Derr		14	13S	23E	5670
18E24a	Gold Center		21	9S	36E	5340
19E9P	Indian Cr. Butte		5	15S	33E	6550
1806P	Izee Summit		28	16S	29E	5293
20E1MP	Lucky Strike		28	3S	32E	5050
20E2	Marks Creek		25	12S	19E	4540
18E7a	Ochoco Meadows		21	13S	20E	5200
18D7	Olive Lake		14	9S	34E	6000
19F1*	Schoolmarm		28	4S	34E	4775
19E7M	Snow Mountain		1	19S	26E	6220
18E9P	Starr Ridge		20	15S	31E	5150
18E25MP	Tipton		34	10S	35½E	5100
	Williams Ranch		20	15S	32E	4500

UPPER DESCHUTES, CROOKED WATERSHEDS (5)

Upper Deschutes River

21E22	Bald Peter		29	10S	9E	5400
21F8	Caldwell Ranch		30	21S	8E	4400
22F3	Cascade Summit		7	23S	6E	4880
21F11	Chemult		21	27S	8E	4760
21E6	Hogg Pass		24	13S	7½E	4755
21F4	Hungry Flat		29	18S	11E	4400
21F6*	Irish-Taylor		25	20S	6E	5500
21F10	New Crescent Lake		11	24S	6E	4800
21E16	New Outchman Flat #2		21	18S	9E	6400
21E23	Racing Creek		15	10S	9E	4800
21F3	Tangent		28	18S	10E	5400
21E15	Three Creeks Butte		27	16S	9E	5200
21E13*	Three Creeks Meadows		34	16S	9E	5650
22F2P	Waldo Lake		15	21S	6E	5600
22F14*	Willamette Pass		33	24S	5½E	5600

Crooked River

19E3MP	Derr		14	13S	23E	5670
20E1MP	Marks Creek		25	12S	19E	4540
20E2	Ochoco Meadows		21	13S	20E	5200
19F1*	Snow Mountain		1	19S	26E	6220
19E4	Tamarack		8	15S	25E	4800

HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS (6)

Hood River

21D6P	Brooks Meadows		2	2S	10E	4300
21025	Cooper Spur		6	2S	10E	3490
2101	Greenpoint Reservoir		27	2N	9E	3200
21020	Knebal Springs		31	1S	11E	3850
21023	Parkdale		5	1S	10E	1770
2108*	Phlox Point		7	3S	9E	5400
21D4	Red Hill		20	1S	9E	4400
2109	Still Creek		25	3S	8½E	3670
21028	Switchback		28	1S	9E	3255
2107P	Tilly Jane		15	2S	9E	6000
21021	Ulrich Ranch Junction		28	1S	11E	3350
21D30	Umbrella Falls		3	3S	9E	5400
21024	Upper Valley		20	1S	10E	2530

Mile Creeks - Mosier Creek

2106P	Brooks Meadows		2	2S	10E	4300
21D20	Knebal Springs		31	1S	11E	3850
21021	Ulrich Ranch Junction		28	1S	11E	3350

Lower Deschutes River

21012	Clear Lake		29	4S	9E	3500
21022	Clear Lake Experimental		29	4S	9E	3500
21E6	Hogg Pass		24	13S	7½E	4755

LOWER COLUMBIA WATERSHEDS (7)

Sandy River

2108*	Phlox Point		7	3S	9E	5400
2109	Still Creek		25	3S	8½E	3670

WILLAMETTE WATERSHEDS (8)

Clackamas River

21013	Clackamas Lake		35	5S	8½E	3400
21012	Clear Lake		29	4S	9E	3500
21016	Lake Harriet		4	6S	7E	2045
21014P*	Peavine Ridge	14 &	15	6S	7E	3500
2108*	Phlox Point		7	3S	9E	5400
2109	Still Creek		25	3S	8½E	3670
21017	Timothy Lake		26	5S	8E	3295

Santiam River

22E1	Detroit (City)		1	10S	5E	1610
22E2	Detroit Dam		7	10S	5E	1580

NUMBER	NAME		LOCATION SEC	TWP	RGE	ELEV
21E6	Hogg Pass		24	13S	7½E	4755
21E4	Marion Forks		29	11S	7E	2600
22E3	Mill City		29	9S	3E	826
21E5	Santiam Junction		14	13S	7E	3750
21E3	Whitewater Bridge		20	10S	7E	2175

McKenzie River

21E8	Dead Horse Grade		13	16S	7E	3700
22E4	Lost Creek Ranch		19	16S	7E	1936
21E7	McKenzie		35	15S	7½E	4800
22E5	McKenzie Bridge		13	16S	5E	1372
22E6	Vida		28	16S	2E	800
21E9	White Branch Slide		15	16S	7E	2700

Middle Fork Willamette River

22F3	Cascade Summit		7	23S	6E	4880
22F8	Lookout Point Dam		13	19S	1W	750
22F6	McCredie Springs		36	21S	4E	2120
22F7	Oakridge		16	21S	3E	1310
22F5	Railroad Overpass		21	22S	5E	2750
22F4	Salt Creek Falls		32	22S	5½E	4000
22F2P	Waldo Lake		15	24S	6E	5600
22F14*	Willamette Pass		33	24S	5½E	5600

Coost Fork Willamette River

22F9	Champion		12	23S	1E	4500
22F10	Golden Curry Creek		1	23S	1E	3136
22F13	Layng Creek R.S.		31	21S	1E	1200
22F12	Lund Park		22	22S	1E	1740
22F11	Weaver Creek		35	22S	1E	2440

Mary's River

23E1	Mary's Peak		21	12S	7W	3620

Luckiamute River

23E2	Laurel Mountain		6	8S	7W	3000
23E3	Valsetz Summit		3	9S	7W	2600

Tualatin River

2302*	Seine Creek		34	1N	5W	2000
2301*	Saddle Mountain		25	1N	6W	3250

ROGUE, UMPQUA WATERSHEDS (9)

Rogue River

23G4P	Althouse		17	41S	7W	4530
22G6	Annie Spring		19	31S	6E	6018
22G28	Beaver Dam Creek		1	38S	4E	5100
22G21P	Big Red Mountain		31	40S	1W	6250
22G13P	Billie Creek Divide		30	36S	5E	5300
22G30	Caliban		16	40S	1E	6500
22G27	Deadwood Junction		8	38S	4E	4600
22F19	Diamond-Crater Summit		34	28S	6E	5800
22G14P	Fish Lake		3	37S	4E	4665
22G12	Fourmile Lake		9	36S	5E	6000
23G3	Grayback Peak		9	40S	5W	6000
22G26	Howard Prairie		32	38S	4E	4500
22G16	Hyatt Prairie Reservoir		15	39S	3E	4900
22G22	Little Red Mountain		25	40S	2W	6500
22G31	Mt. Ashland Switchback		15	40S	1E	6400
23G14	Mule Creek		8	32S	9W	3680
23G5	Page Mountain		5	41S	7W	4045
22G5	Park Meadquarters		8	31S	6E	6550
22G11	Seven Lakes No. 2		26	33S	5E	6200
22G2	Silver Burn		30	30S	4E	3720
22G20	Siskiyou Summit		17	40S	2E	4630
22G32	Ski Bowl Road		22	40S	1E	6000
22G9	South Fork Canal		12	33S	3E	3500
22G1	Whaleback		4	31S	2E	5025

Umpqua River

22F9	Champion		12	23S	1E	4500
22F18P	Diamond Lake		29	27S	6E	5315
23G8	King Mountain No. 1		5	33S	4W	4500
23G9	King Mountain No. 2		4	33S	4W	4000
23G10	King Mountain No. 3		33	32S	4W	3648
23G11	King Mountain No. 4		33	32S	4W	3049
23G12	King Mountain No. 5	29 &	28	32S	4W	2380
23G13	King Mountain No. 6		20	32S	4W	1820
22F16	North Umpqua		19	26S	6E	4215
22F23	Red Butte No. 1		36	27S	2W	4560
22F24	Red Butte No. 2		30	27S	1W	4000
22F25	Red Butte No. 3		30	27S	1W	3500
22F26	Red Butte No. 4		30	27S	1W	3000
22F27	Red Butte No. 5		20	27S	1W	2500
22F28	Red Butte No. 6		17	27S	1W	2000
22F17	Trap Creek		1	27S	4E	3800
22G1	Whaleback		4	31S	2E	5025

KLAMATH WATERSHEDS (10)

Klamath River

22G6	Annie Spring		19	31S	6E	6018
22G13P	Billie Creek Divide		30	36S	5E	5300
21F11	Chemult		21	27S	8E	4760
22G24*	Cold Springs Camp		12	35S	5E	6100
22G12a	Crazyman Flat		9	34S	15E	6100
20H2a	Crowder Flat	(Cal)	30	47N	11E	5200
22F19	Diamond-Crater Summit		34	28S	6E	5800
21F18	Diamond Lake Jct. (97)		1	29S	7E	4600

NUMBER	NAME		LOCATION SEC	TWP	RGE	ELEV
21G6a	Dog Hollow		1	40S	14E	4900
20G14a	Finley Corrals		11	36S	16E	6000
22G12	Fourmile Lake		9	36S	5E	6000
21G4P	Gerber		12	39S	13E	4850
22G26	Howard Prairie		32	38S	4E	4500
22G16	Hyatt Prairie Reservoir		15	39S	3E	4900
22G15	Lake of the Woods		11	37S	5E	4360
22G5	Park Headquarters		8	31S	6E	6550
20G6MP	Quartz Mountain		2	38S	16E	5320
22G11	Seven Lakes No. 2		26	33S	5E	6200
22G33	Seven Mile		20	33S	6E	5725
20H1a	State Line	(Cal)	21	48N	11E	5750
20G9AP	Strawberry		4	40S	16E	5760
20G2AP	Summer Rim		23	33S	16E	7100
20G13a	Sycan Flat		25	31S	14E	5500
21G3P	Taylor Butte		21	33S	11E	5100

Pacific Power and Light Company's Snow Stations

3	Chiloquin (PP&L)		34	34S	7E	4187
4	Crystal (PP&L)		26	34S	6E	4200
5	Fort Klamath (PP&L)		22	33S	7½E	4150
8	Harriman Lodge (PP&L)		3	36S	6E	4200
6	Kirk (PP&L)		1	33S	7E	4533

LAKE COUNTY, GOOSE LAKE WATERSHEDS

Goose Lake

20G15a	Bear Flat Meadow		27	36S	19E	5900
20G8MP	Camas Creek		5	39S	21E	5720
20G11A	Cox Flat		16	37S	18E	5750
20H2a	Crowder Flat	(Cal)	30	47N	11E	5200
20H3a	Oismal Swamp	(Cal)	31	48N	16E	7200
20G17a	Patton Meadow		28	38S	18E	6800
20G6MP	Quartz Mountain		2	38S	16E	5320
20H1a	State Line	(Cal)	21	48N	11E	5750
20G9AP	Strawberry		4	40S	16E	5760
20G16a	Willow Creek		13	40S	21E	6020

Abert Lake

20G15a	Bear Flat Meadow		27	36S	19E	5900
20G18Ap	Colvin Creek		12	36S	21E	6550
20G11A	Cox Flat		16	37S	18E	5750
20G14a	Finley Corrals		11	36S	16E	6000
20G6MP	Quartz Mountain		2	38S	16E	5320
20G10a	Sherman Valley		15	37S	21E	6600

Summer Lake

20G2AP	Summer Rim		23	33S	16E	7100

Silver Lake

21F2P	Silver Creek	25 & 26		29S	13E	4900
20G13a	Sycan Flat		25	31S	14E	5500

Warner Lake

20G8MP	Camas Creek		5	39S	21E	5720
20M3a	Oismal Swamp	(Cal)	31	48N	16E	7200
19G1a	Hart Mountain		1	36S	25E	6350
20G10a	Sherman Valley		15	37S	21E	6600
20G16a	Willow Creek		13	40S	21E	6020

Guano Lake

19M1	Bald Mountain	(Nev)	17	45N	21E	6720
19G1a	Hart Mountain		1	36S	25E	6350
19M4a	Little Bally Mt.	(Nev)	8	45N	19E	6600

HARNEY BASIN WATERSHED (11)

Silvies River - Silver Creek

18F7a	Call Meadows		29	20S	33E	5340
19F2	Oelintment Lake		28	19S	26E	5600
19F3	Emigrant Butte		14	21S	27E	5040
18F3P	Idlewild Camp		27	20S	31E	5200
19E9P	Izee Summit		28	16S	29E	5293
18F1	Rock Spring		23	18S	32E	5100
19F1*	Snow Mountain		1	19S	26E	6220
19E7M	Starr Ridge		20	15S	31E	5150
18F4P	Stinking Water		34	21S	34E	4800

Donner Und Blitzen River

18F6a	Buck Pasture		28	29S	35E	5300
18G2PA	Fish Creek		4	33S	33E	7900
19G1a	Hart Mountain		1	36S	25E	6350
18G1PA	Silvies		35	32S	33E	6900
18G7a	"V" Lake		31	35 S	32½E	6600

Trout and Whitehorse Creeks

18G6a	Oenio Creek		14	41S	34E	6000
18M1	Disaster Peak	(Nev)	8	47N	34E	6500
17G5a	Oregon Canyon		8	40S	40E	6950
18G5a	Trout Creek		10	41S	38E	7800

Harney Lake

18G8a	Buckskin Lake		25	29S	30E	5200

Map and Index to OREGON SNOW COURSES

The Following Organizations Cooperate in the Oregon Snow Survey Work

STATE
- Idaho Cooperative Snow Surveys
- Nevada Cooperative Snow Surveys
- Oregon State University
- Oregon State Engineer and Corps of State Watermasters
- Oregon State Highway Engineers
- Soil and Water Conservation Districts of Oregon

COUNTY
- Douglas County Water Resources Survey

FEDERAL
- Department of Agriculture
  - Cooperative Extension Service
  - Forest Service
  - Soil Conservation Service
- Department of Commerce
  - NOAA, National Weather Service
- Department of the Interior
  - Bonneville Power Administration
  - Bureau of Land Management
  - Bureau of Reclamation
  - Fish and Wildlife Service
  - Geological Survey
  - National Park Service
- Department of National Defense
  - Corps of Army Engineers

PUBLIC UTILITIES
- Pacific Power and Light Company
- Portland General Electric Company
- California-Pacific Utilities Company

MUNICIPALITIES
- City of Baker
- City of La Grande
- City of The Dalles
- City of Walla Walla

IRRIGATION DISTRICTS
- Arnold Irrigation District
- Associated Ditch Companies
- Burnt River Irrigation District
- Central Oregon Irrigation District
- East Fork Irrigation District
- Grants Pass Irrigation District
- Hood River Irrigation District
- Jordan Valley Irrigation District
- Juniper Flat Irrigation District
- Lakeview Water Users, Incorporated
- Medford Irrigation District
- Middle Fork Irrigation District
- North Board of Control - Owyhee Project
- North Unit Irrigation District
- Ochoco Irrigation District
- Rogue River Valley Irrigation District
- South Board of Control - Owyhee Project
- Squaw Creek Irrigation District
- Talent Irrigation District
- Tumalo Project
- Vale-Oregon Irrigation District
- Warmsprings Irrigation District

PRIVATE ORGANIZATIONS
- The Crag Rats, Hood River, Oregon

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 97205

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

Return this entire sheet to above address, if you do NOT wish to receive this material ☐, or if change of address is needed ☐ (indicate changes in address below, including ZIP code).

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF AGRICULTURE
AGR-101

U.S.MAIL

FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"The Conservation of Water begins with the Snow Survey"

USDA NATIONAL AGRICULTURAL LIBRARY
CURRENT SERIAL RECORD
BELTSVILLE, MARYLAND 20705